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THE U.S.S.R.

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LETTERS OF TRANSMITTAL

FEBRUARY 25, 1964.

To Members of the Joint Economic Committee:

Transmitted herewith for the use of the Joint Economic Committee and other Members of Congress is a collection of statistical materials and interpretative articles entitled "Annual Economic Indicators for the U.S.S.R." These materials were compiled and the analyses prepared by a group of experts on the Soviet economy. They are made available to the members of the Joint Economic Committee as a continuation of the studies which appeared in December 1962 under the title "Dimensions of Soviet Economic Power."

We are grateful to the Government departments and organizations for the assistance they have furnished the committee and to the individuals who prepared various sections of this volume. The committee is also grateful to the Research Analysis Corp. for permitting staff members to prepare sections of this study.

It is understood, of course, that neither the statistics nor the interpretative materials contained herein necessarily represent the views of the committee or any of its individual members.

PAUL H. DOUGLAS, *Chairman.*

FEBRUARY 24, 1964.

Hon. PAUL H. DOUGLAS,
Chairman, Joint Economic Committee,
Congress of the United States,
Washington, D.C.

DEAR MR. CHAIRMAN: Transmitted herewith is a compendium of statistical materials and interpretative articles entitled "Annual Economic Indicators for the U.S.S.R." This volume reflects the continuing interest of the committee in the development of the Soviet economy and in scholarly interpretative work in this field. The statistical materials contained herein are intended as a supplement to the technical and tabular materials to be found in the Joint Economic Committee's publication of December 1962, entitled "Dimensions of Soviet Economic Power." New materials have been included in this volume, specifically in the areas of investment, East-West trade, and input-output data. Most of the materials contained herein are revisions and updatings of materials that appear in "Dimensions;" however, no attempt has been made to reproduce tables from that volume for which revisions are not yet available.

The studies have been prepared at the committee's request by a group of professional experts who have given generously of their time. As in previous committee publications, attempt has been made to present the data in a comparative setting in order to provide perspective on current Soviet economic performance. It is hoped that this

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LETTERS OF TRANSMITTAL

mode of presentation will afford a more meaningful appraisal of the economic capabilities of the U.S.S.R.

The committee is grateful to the Departments of Commerce, Agriculture, and Health, Education, and Welfare, and to the Bureau of the Census for making their specialists available for this project. The committee is also grateful to the Research Analysis Corp. of McLean, Va., for making available for this project the services of Stanley H. Cohn, author of the section of national income accounts, and Vladimir Treml on input-output data.

The committee is similarly grateful for the contributions of James W. Brackett on population; Murray Feshbach on employment and general bibliography; Frances L. Hall and Vera L. Hartman on East-West trade; Oleg Jerschkowsky on Soviet bloc statistics; Seymour M. Rosen on education; and Harry E. Walters on agriculture.

Finally the committee is particularly indebted to Leon M. Herman, senior specialist in Soviet economics of the Legislative Reference Service of the Library of Congress, who in large part is responsible for this study. Mr. Gregory Guroff handled the editorial tasks for the committee staff.

JAMES W. KNOWLES,
Executive Director, Joint Economic Committee.

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FOREWORD

The present statistical report on the Soviet economy is designed primarily to bring up to date the basic quantitative data contained in the compendium "Dimensions of Soviet Economic Power" which the Joint Economic Committee published in December 1962. Beyond that, however, the body of tabular material included in the present study is also intended to provide a statistical profile of the Soviet economy in the 1960's.

In connection with a number of the Soviet statistical indicators included in this volume, an attempt has been made to present comparable data for the economy of the United States. In all such cases, appropriate adjustments have been made to aline the two sets of indicators as closely as possible, as far as coverage and definition are concerned. Nevertheless, the pitfalls that surround international economic comparisons cannot be wholly circumvented. The best, therefore, that could be said about the comparative statistical data contained in the present compendium is that they are offered in the hope that they may provide the reader with a frame of reference for viewing the performance of the Soviet economy in a more meaningful way.

In general, the statistical data presented for the U.S.S.R. are a judicious combination, gradually achieved by the professional experts in this field, of official figures, independent estimates, and indexes calculated from both official data and independent estimates. Official data have been accepted for the output of individual industrial commodities and for most agricultural products, with the notable exception of grain. In the case of grain, independent estimates usually place the total far below the reported official Soviet figures; moreover, the degree of official exaggeration in regard to this highly sensitive indicator is believed to have increased in the past few years.

Indexes of Soviet production have been calculated by standard U.S. procedures, such as those in constructing the Federal Reserve index of industrial production and the USDA index of farm output. The calculated index of Soviet industrial production typically shows a growth of one or two percentage points less than the official Soviet index, whose upward bias is attributable to the use of prices and weights of a biased character.

Data on the foreign trade of the U.S.S.R. are taken directly from Soviet sources, whereas data on foreign aid have been pieced together from a variety of official and nonofficial sources.

By and large, the data presented herewith, if anything, tend to show the favorable side of the Soviet economy. This is largely due to the fact that available Soviet output data are often limited to items of special prominence in the Soviet economy. Hence, where comparisons are made with the United States, the products compared are particularly important for the Soviet economy, while they may or may not be of equally great importance in the U.S. economy with its own distinctive patterns of production.

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SECTION I
POPULATION

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TABLE I-1.—*Population of the U.S.S.R., by urban and rural residence: Selected years, 1913-63*

[Population figures in millions]

Territory and dates	Population			Percent		
	Total	Urban	Rural	Total	Urban	Rural
Interwar territory:						
1913	130.3	24.8	114.5	100	18	82
1917	143.5	25.8	117.7	100	18	82
1919	138.0	21.5	116.5	100	16	84
1920	136.8	20.9	115.9	100	15	85
Dec. 17, 1926	147.0	26.3	120.7	100	19	81
1929	153.4	28.7	124.7	100	28	72
1937	163.8	46.6	117.2	100	30	70
1938	167.0	50.0	117.0	100	33	67
Jan. 17, 1939	170.6	56.1	114.5	100	32	68
1940 territory: ¹ Jan. 1, 1939	190.7	60.4	130.3	100		
Postwar territory:						
1913	159.2	28.5	130.7	100	18	82
1917	163.0	29.1	133.9	100	18	82
Jan. 1, 1950	178.5	69.4	109.1	100	39	61
Jan. 1, 1951	181.6	73.0	108.6	100	40	60
Jan. 1, 1952	184.8	76.8	108.0	100	42	58
Jan. 1, 1953	188.0	80.2	107.8	100	43	57
Jan. 1, 1954	191.0	83.6	107.4	100	44	56
Jan. 1, 1955	194.4	86.3	108.1	100	44	56
Jan. 1, 1956	197.9	88.2	109.7	100	45	55
Jan. 1, 1957	201.4	91.4	110.0	100	45	55
Jan. 1, 1958	204.9	95.6	109.3	100	47	53
Jan. 15, 1959	208.8	100.0	108.8	100	48	52
Jan. 1, 1960	212.3	103.8	108.5	100	49	51
Jan. 1, 1961	216.1	108.3	107.8	100	50	50
Jan. 1, 1962	219.7	111.8	107.9	100	51	49
Jan. 1, 1963	223.1	115.1	108.0	100	52	48
July 1, 1963	224.8	116.5	108.3	100	52	48

¹ The figures shown are official Soviet estimates "for the territory of the U.S.S.R., including the western oblasts of the Ukraine and Belorussia, Moldavia, Lithuania, Latvia, and Estonia." The figures presumably apply to the interwar territory adjusted for the annexations of 1939 and 1940, but exclude the population in the territory retroceded to Poland at the end of the war.

Source: Tsentral'noye statisticheskoye upravleniye pri sovete ministrov SSSR, *Narodnoye khozyaystvo SSSR v 1962 godu, statisticheskiy uezhegodnik* (*The National Economy of the U.S.S.R. in 1962, a Statistical Yearbook*), Moscow, Gosstatizdat, 1963, pp. 7-8.

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 NATIONAL ECONOMIC INDICATORS FOR THE U.S.S.R.

TABLE I-2.—Number and population of urban places in the U.S.S.R., by size of place: Selected years, 1926-63
 [Population figures in millions]

Category and size of place	Interwar territory		January 1939	Postwar territory				
	December 1923	January 1939		January 1959	January 1961	January 1962	January 1963	
NUMBER OF PLACES								
All places.....	1,925	2,373	2,759	4,619	4,842	4,943	5,012	
Under 3,000.....	748	353	467	842	788	779	794	
3,000 to 5,000.....	620	418	531	904	952	948	965	
5,000 to 10,000.....	578	672	757	1,297	1,411	1,484	1,484	
10,000 to 20,000.....	253	466	501	798	864	1,879	1,897	
20,000 to 50,000.....	135	288	315	474	510	526	522	
50,000 to 100,000.....	60	94	99	156	150	153	172	
100,000 to 500,000.....	28	71	78	123	141	147	150	
500,000 and over.....	3	11	11	25	26	27	28	
POPULATION								
All places.....	26.3	66.1	60.4	100.0	108.3	111.8	115.1	
Under 3,000.....	1.2	0.7	0.9	1.6	1.5	1.4	1.5	
3,000 to 5,000.....	1.3	1.7	2.1	3.6	3.8	3.7	3.9	
5,000 to 10,000.....	2.7	4.7	5.3	9.2	10.0	10.5	10.4	
10,000 to 20,000.....	3.5	6.5	6.9	11.2	12.0	12.2	12.4	
20,000 to 50,000.....	4.0	8.7	9.6	14.8	16.0	16.4	16.1	
50,000 to 100,000.....	4.1	6.8	7.1	11.0	10.4	10.6	11.9	
100,000 to 500,000.....	5.4	14.2	15.7	24.4	27.8	28.9	29.7	
500,000 and over.....	4.1	12.8	12.8	24.2	26.8	28.1	29.2	

¹ The figures shown are official Soviet estimates "for the territory of the U.S.S.R., including the western oblasts of the Ukraine and Belorussia, Moldavia, Lithuania, Latvia, and Estonia." The figures presumably apply to the interwar territory adjusted for the annexations of 1939 and 1940, but exclude the population in the territory retroceded to Poland at the end of the war.

Source: Tsentral'noye statisticheskoye upravleniye pri sovete ministrov SSSR, *Narodnoye khozyaystvo SSSR v 1960 godu, statisticheskiy yezhegodnik* (*The National Economy of the U.S.S.R. in 1960. A Statistical Yearbook*), Moscow, Gosstatizdat, 1961, pp. 50-51; *Narodnoye khozyaystvo SSSR v 1961 godu, statisticheskiy yezhegodnik* (*The National Economy of the U.S.S.R. in 1961. A Statistical Yearbook*), Moscow, Gosstatizdat, 1962, pp. 46-47, and *Narodnoye khozyaystvo SSSR v 1962 godu, statisticheskiy yezhegodnik* (*The National Economy of the U.S.S.R. in 1962. A Statistical Yearbook*), Moscow, Gosstatizdat, 1963, pp. 28-29.

TABLE I-3.—Birth, death, and natural increase rates for the U.S.S.R.: 1913-62
 [Rate per 1,000 population]

Year	Birth	Death	Natural increase	Year	Birth	Death	Natural increase
1913.....	47.0	30.2	16.8	1953.....	25.1	9.1	16.0
1926.....	44.0	20.3	23.7	1954.....	26.6	8.9	17.7
1928.....	44.3	23.3	21.0	1955.....	25.7	8.2	17.5
1937.....	38.7	18.9	19.8	1956.....	25.2	7.6	17.6
1938.....	37.5	17.5	20.0	1957.....	25.4	7.8	17.6
1939.....	36.5	17.3	19.2	1958.....	25.3	7.2	18.1
1940.....	31.3	18.1	13.2	1959.....	25.0	7.6	17.4
1950.....	26.7	9.7	17.0	1960.....	24.9	7.1	17.8
1951.....	27.0	9.7	17.3	1961.....	23.8	7.2	16.6
1952.....	26.5	9.4	17.1	1962.....	22.4	7.5	14.9

Source: Tsentral'noye statisticheskoye upravleniye pri sovete ministrov SSSR, *Narodnoye khozyaystvo SSSR v 1962 godu, Statisticheskiy yezhegodnik* (*The National Economy of the U.S.S.R. in 1962, a Statistical Yearbook*), Moscow, Gosstatizdat, 1963, p. 30.

TABLE I-4.—*Birth, death, and natural increase rates for Union Republics of the U.S.S.R.: 1961 and 1962*

[Rate per 1,000 population]

Republic	Birth		Death		Natural increase	
	1961	1962	1961	1962	1961	1962
			23.8	22.4	7.2	7.5
R.S.F.S.R.	21.9	20.2	7.4	7.7	14.5	12.5
Ukrainian S.S.R.	19.5	18.8	7.0	7.6	12.5	11.2
Belorussian S.S.R.	23.5	22.2	6.5	7.3	17.0	14.9
Uzbek S.S.R.	38.5	37.2	6.0	6.1	32.5	31.1
Kazakh S.S.R.	35.3	32.9	6.5	6.4	28.8	26.5
Georgian S.S.R.	24.7	23.6	6.5	7.1	18.2	16.5
Azerbaijhan S.S.R.	42.1	40.3	6.7	7.4	35.4	32.9
Lithuanian S.S.R.	22.2	20.8	7.9	8.7	14.3	12.1
Moldavian S.S.R.	28.2	25.6	6.4	6.8	21.8	18.8
Latvian S.S.R.	16.7	16.1	10.1	10.8	6.6	5.3
Kirgiz S.S.R.	35.5	33.6	6.7	6.4	28.8	27.2
Tadzhik S.S.R.	34.4	34.1	5.2	5.8	20.2	28.3
Armenian S.S.R.	37.6	35.1	6.5	6.7	31.1	28.4
Turkmen S.S.R.	41.0	40.1	6.6	6.9	34.4	33.2
Estonian S.S.R.	16.5	16.1	10.6	10.9	5.9	5.2

Source: "Statisticheski Materialy" ("Statistical Materials"), *Vestnik Statistiki (Statistical Herald)*, No. 7, August 1963, p. 92.TABLE I-5.—*Estimated and projected population of the U.S.S.R. and the United States: 1913-80*

[Unless otherwise noted, figures relate to July 1. Beginning with 1939, the figures for the United States include Armed Forces overseas; prior to 1962, they exclude Alaska and Hawaii]

Year	Population of the Soviet Union in—		Population of the United States	U.S. population as a percent of the Soviet population in—		
	Present territory	Interwar territory		Present territory	Interwar territory	
1913	150.2	139.3	97.2	61.1	69.8	
1917		143.5	103.3		72.0	
1920		136.8	106.5		77.9	
1925	147.0	117.4		79.9		
1929	153.4	121.8		79.4		
1930	170.6	131.0		76.8		
1941	200.0	133.4	66.7			
1950	181.2	132.3	84.1			
1962	220.9	186.6	84.5			
1970:						
B.	244.2	214.2	87.7			
C.	241.4	208.9	86.5			
1980:						
B.	278.1	259.6	93.3			
C.	269.2	245.7	91.2			

¹ Census of Dec. 17, 1926.² Census of Jan. 17, 1939.Source: Soviet Union: 1913-39: Tsentral'noye statisticheskoye upravleniye pri sovete ministrov SSSR, *Narodnoye khozyaystvo SSSR v 1962 godu, statisticheskiy yezhegodnik* (The National Economy of the U.S.S.R. in 1962, A Statistical Yearbook), Moscow, Gosstatizdat, 1963, pp. 7-8. 1941: Estimate. 1950-80: Averages of Jan. 1 figures shown in *Dimensions of Soviet Economic Power*, Joint Economic Committee of the U.S. Congress, Washington 1962, p. 570.United States 1913-41: U.S. Department of Commerce, Bureau of the Census, *Historical Statistics of the United States, Colonial Times to 1957*, Washington, 1960, p. 7. 1950 and 1962: "Estimates of the Population of the United States, Jan. 1, 1950, to Sept. 1, 1962," *Current Population Reports*, series P-25, No. 256, Oct. 15, 1962. 1970 and 1980: "Interim Revised Projections of the Population of the United States, by Age and Sex: 1975 and 1980": *Current Population Reports*, series P-25, No. 251, July 6, 1962. The figures shown above as series B and C are given in the source as series II and III, respectively. The series II(B) projections assume constant fertility at the 1955-57 level; the series III(C) projections assume that fertility will decline to the 1949-51 level by 1965-70 and that it will remain at that level until 1980. Both series assume that mortality will decline and that there will be a net immigration of 300,000 annually.

TABLE I-6.—*Birth rates for the U.S.S.R. and the United States: 1955 to 1962*
 [Births per 1,000 population]

Year	Soviet Union	United States
1955	25.7	25.0
1956	25.2	25.2
1957	25.4	25.3
1958	25.3	24.6
1959	25.0	24.3
1960	24.9	23.7
1961	23.8	23.3
1962	22.4	22.4

Source: Soviet Union: Tsentral'noye statisticheskoye upravleniye pri sovete ministrov SSSR, *Narodnoye khozyaystvo SSSR v 1962 godu, statisticheskiy yezhegodnik* (*The National Economy of the U.S.S.R. in 1962. A Statistical Yearbook*), Moscow, Gosstatizdat, 1963, p. 30.

United States: U.S. Department of Commerce, Bureau of the Census, *Statistical Abstract of the United States: 1962*, Washington, 1962, p. 52; and *Statistical Abstract of the United States: 1963*, Washington, 1963, p. 52.

TABLE I-7.—*Death rates for the U.S.S.R. and the United States: 1955 to 1962*
 [Deaths per 1,000 population]

Year	Soviet Union	United States
1955	8.2	9.3
1956	7.6	9.4
1957	7.8	9.6
1958	7.2	9.5
1959	7.6	9.4
1960	7.1	9.5
1961	7.2	9.3
1962	7.5	9.5

Source: Soviet Union: Tsentral'noye statisticheskoye upravleniye pri sovete ministrov SSSR, *Narodnoye khozyaystvo SSSR v 1962 godu, statisticheskiy yezhegodnik* (*The National Economy of the U.S.S.R. in 1962. A Statistical Yearbook*), Moscow, Gosstatizdat, 1963, p. 30.

United States: U.S. Department of Commerce, Bureau of the Census, *Statistical Abstract of the United States: 1962*, Washington, 1962, p. 52; and *Statistical Abstract of the United States: 1963*, Washington, 1963, p. 52.

TABLE I-8.—Total, urban, and rural population of the U.S.S.R., by republic, kray and oblast: 1959-63
 [Population figures in thousands. Figures for 1959 refer to the census of January 15; those for 1961 and 1963 are official estimates for Jan. 1. A minus (-) denotes a decrease.]

Area	Total				Urban				Rural				
	1959	1961	1963	Percent change, 1959 to 1963	1959	1961	1963	Percent change, 1959 to 1963	1959	1961	1963	Percent change, 1959 to 1963	
U.S.S.R.	208,827	216,151	223,122	3.5	3.2	90,978	108,273	115,088	8.3	6.3	108,849	107,878	-0.9
R.S.F.S.R.	117,534	120,554	123,441	2.6	2.4	61,611	66,195	70,039	7.4	5.8	55,923	54,359	-2.8
Altayskiy Kray	2,683	2,765	2,832	3.1	2.4	882	967	1,044	9.6	8.0	1,801	1,798	-2
Gorno-Altayskaya Autonomous Oblast	157	159	166	1.3	4.4	30	31	33	3.3	6.5	127	128	1.8
Other	2,626	2,606	2,666	3.2	2.3	852	936	1,011	9.9	8.0	1,674	1,670	-0.2
Krasnodarskiy Kray	3,588	4,036	3.6	3.5	1,462	1,584	1,603	8.3	13.8	2,300	2,314	2.3	
Adygeyskaya Autonomous Oblast	285	297	343	4.2	15.5	96	103	120	7.3	16.5	189	194	2.6
Other	3,477	3,601	3,693	3.6	2.6	1,396	1,481	1,683	8.4	13.6	2,111	2,120	0.4
Krasnoyarskiy Kray	2,615	2,698	2,801	3.2	3.8	1,206	1,431	1,538	10.4	7.5	1,319	1,267	-3.9
Khakasskaya Autonomous Oblast	411	425	442	3.4	4.0	222	233	254	9.5	4.5	189	182	-3.7
Khanty-Mansijskiy (Dolgo-Nenetskiy) National Okrug	33	33	33	0	0	20	20	20	0	0	13	13	0
Evenkiyskiy National Okrug	10	10	11	0	10.0	2	3	3	50.0	0	8	7	-12.5
Other	2,161	2,230	2,315	3.2	3.8	1,052	1,165	1,261	10.7	8.2	1,109	1,065	-14.3
Priمورskiy Kray	1,351	1,401	1,467	1.4	9.4	928	989	1,039	6.6	5.1	463	412	-1.0
Stavropol'skiy Kray	1,883	1,957	2,040	3.9	4.2	587	635	678	8.2	6.8	1,296	1,322	3.9
Karachayevo-Cherkesskaya Autonomous Oblast	273	300	308	7.9	2.7	66	70	86	6.1	22.9	212	230	8.5
Other	1,605	1,637	1,732	3.2	4.5	521	565	592	8.4	4.8	1,084	1,092	0.7
Khabarovskiy Kray	1,142	1,166	1,206	2.1	3.4	848	891	944	5.1	5.9	294	275	-6.5
Yevreyskaya Autonomous Oblast	163	161	167	-1.2	3.7	117	117	119	0	1.7	46	44	-4.3
Other	979	1,005	1,039	2.7	3.4	731	774	825	5.9	6.6	248	231	-7.4
Amurskaya Oblast	718	728	742	1.4	1.9	429	438	447	2.1	2.1	289	290	1.7
Arkhangelskaya Oblast	1,276	1,305	1,352	2.3	3.6	675	759	830	12.4	12.0	546	502	-8.1
Nenetskiy National Okrug	46	37	38	-19.6	2.7	26	17	18	5.9	20	20	20	0
Other	1,230	1,268	1,314	3.1	3.6	649	742	832	14.3	12.1	581	526	-8.4

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TABLE I-8.—*Total, urban, and rural population of the U.S.S.R., by republic, kray, and oblast: 1959-63—Continued*
 [Population figures in thousands. Figures for 1959 refer to the census of January 15; those for 1961 and 1963 are official estimates for Jan. 1. A minus (-) denotes a decrease]

Area	Total				Urban				Rural				
	1959	1961	1963	Percent change, 1959 to 1961	1959	1961	1963	Percent change, 1959 to 1961	1959	1961	1963	Percent change, 1959 to 1961	
R.S.F.S.R.—Continued													
Astrachanskaya Oblast	702	734	762	4.6	365	413	433	13.2	4.8	337	321	-2.5	
Belgorodskaya Oblast	1,226	1,250	1,235	-1.5	240	265	299	10.4	12.8	986	985	-2.9	
Bryanskaya Oblast	1,559	1,557	1,571	1.0	540	564	621	6.3	6.3	1,010	973	-3.7	
Vladimirskaya Oblast	1,402	1,455	1,463	3.7	2.4	2.0	2.7	6.6	4.6	606	595	-2.4	
Vologodetskaya Oblast	1,834	1,923	2,028	5.2	1.008	1,140	1,222	13.1	7.2	846	855	-1.9	
Voronezhskaya Oblast	1,318	1,312	1,314	-0.2	453	502	531	10.8	5.8	788	801	-3.3	
Gor'kovskaya Oblast	2,369	2,410	2,454	1.7	1.8	1.7	1.8	5.2	5.8	835	810	-2.3	
Iranovskaya Oblast	3,591	3,637	3,650	1.8	821	901	966	9.7	7.2	1,648	1,609	-5.3	
Irkutskaya Oblast	1,322	1,338	1,345	1.2	882	921	939	4.4	7.4	1,509	1,588	-2.5	
Khabarovskaya Oblast	1,975	2,060	2,155	5.8	5.1	876	919	4.9	2.6	446	419	-6.5	
Uf'ordinskii Buryat'kii National Okrug	133	150	164	12.8	9.3	20	21	5.0	5.4	749	753	-4.1	
Other	1,833	1,940	1,981	5.3	1,207	1,317	1,358	9.1	9.0	113	130	-9	
Kalininogradskaya Oblast	611	644	645	5.4	2	394	430	4.8	9.1	636	623	-3.2	
Kaliningradskaya Oblast	1,807	1,750	1,759	-0.9	-1.2	788	828	5.1	3.7	217	214	-1.4	
Kaluzhskaya Oblast	1,936	1,944	1,957	0.9	1.4	141	173	1.0	1.0	962	910	-5.6	
Kamchatskaya Oblast	221	231	246	4.5	6.5	141	163	17.1	12.1	8.8	571	-5.4	
Kor'jatskii National Okrug	28	32	35	14.3	9.4	6	8	10	35.3	22	24	2.7	
Other	183	199	211	3.1	6.0	135	150	161	11.1	7.3	58	-8.8	
Kemerovskaya Oblast	2,786	2,914	2,980	4.6	2.3	2,149	2,301	2.377	7.1	637	613	-3.5	
Kirovskaya Oblast	1,916	1,943	1,921	-3.8	-1.2	704	757	7.5	5.0	1,212	1,086	-1.6	
Kostromskaya Oblast	1,920	1,914	1,897	-7.7	-1.9	366	388	3.8	5.5	1,026	1,026	-0.4	
Kur'yashhevskaya Oblast	2,238	2,368	2,447	4.9	3.3	1,397	1,517	1,611	2.3	525	499	-5.5	
Kurskaya Oblast	1,999	1,921	1,067	2.2	4.5	328	336	8.6	6.2	861	851	-5.2	
Leningradskaya Oblast	1,483	1,507	1,510	1.6	2	323	346	3.2	7.3	671	666	-1.8	
Lipetskaya Oblast	4,666	4,718	4,860	5.3	3.0	3,949	4,150	4,250	14.2	6.9	1,180	1,161	-3.0
Magadan'skaya Oblast	1,141	1,162	1,190	1.8	2.4	344	359	414	8.6	617	588	-1.8	
Chukotskii National Okrug	47	52	66	10.6	27	35	50	20.6	8.4	45	41	-1.4	
Other	189	196	213	3.7	8.7	164	172	188	4.9	9.3	25	-0.8	
Moskovskaya Oblast	10,949	11,472	11,606	2.3	2.4	8,577	9,072	9,554	5.8	5.3	2,372	-10.1	
Murmanskaia Oblast	568	649	671	6.7	7.1	523	573	616	9.6	7.5	45	-10.0	

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Novgorodskaya Oblast	736	730	726	-8	-5	281	318	338	7.8	8.3	455	427	398	-6.2	-6.8
Voronezhskaya Oblast	2,299	2,376	2,450	-3.8	-3.1	1,276	1,374	1,440	7.0	4.8	1,023	1,002	1,010	-2.1	-2.4
Omskaya Oblast	1,645	1,758	1,839	3.2	4.1	1,901	4.4	711	782	830	10.0	6.1	934	-1.9	-1.7
Oranburgskaya Oblast	1,829	1,909	1,991	4.4	4.3	1,945	826	899	984	8.8	1,003	1,010	1,027	.7	-2.2
Oryol'skaya Oblast	1,929	936	500	-8	1.0	221	253	277	14.5	9.5	7.2	1,018	983	-3.5	-1.4
Penzenskaya Oblast	1,510	1,621	1,889	1.7	1.2	1,765	1,877	1,988	6.3	6.6	10.2	1,010	970	-4.0	-1.4
Penskaya Oblast	2,983	3,043	3,081	1.7	1.2	1,765	1,877	1,988	6.3	6.6	1,228	1,166	1,068	-5.0	-6.8
Komi-Permyatskiy National Okrug	217	233	231	7.4	-9	22	37	41	68.2	10.8	195	196	190	.5	-3.1
Other	2,776	2,810	2,850	1.2	-1.4	1,743	1,840	1,942	5.6	5.6	1,033	970	908	-6.1	-6.4
Pskovskaya Oblast	932	918	904	-3.6	-1.5	258	292	303	9.3	7.4	694	636	601	-8.4	-5.5
Rostovskaya Oblast	3,312	3,455	3,587	4.3	-2.2	1,457	1,457	1,458	2,207	7.8	1,012	1,407	1,380	-1.9	-1.9
Ryazanskaya Oblast	1,445	1,460	1,460	1.0	-1.2	433	490	526	13.2	7.3	1,413	970	931	-4.2	-4.0
Saratovskaya Oblast	2,163	2,221	2,289	2.7	3.1	1,164	1,246	1,310	7.0	5.1	999	975	979	-2.4	-2.4
Sel'zhalinskaya Oblast	649	630	627	-2.9	-1.5	489	492	493	.6	2	160	138	134	-13.8	-2.9
Sverdlovskaya Oblast	4,044	4,162	4,258	-2.9	-2.3	3,074	3,255	3,383	5.9	3.3	907	895	895	-6.5	-1.3
Smolenskaya Oblast	1,143	1,111	1,106	-2.8	-2.8	3,665	3,900	4,121	6.6	7.7	721	694	721	-7.2	-3.7
Tambovskaya Oblast	1,549	1,546	1,556	-1.2	-1.2	408	453	471	11.0	4.0	1,141	1,093	1,077	-4.2	-1.5
Tver'skaya Oblast	747	744	764	-4	-1	300	331	404	5.8	3.8	387	363	360	-6.2	-7.8
Tuvin'skaya A.S.S.R.	172	186	198	8.1	6.5	50	68	71	26.0	12.7	122	123	127	-8	-3.3
Tul'skaya A.S.S.R.	1,920	1,928	1,928	-4	0	1,160	1,214	1,264	12.7	6.1	760	714	664	-6.1	-4.0
Tyumen'skaya Oblast	1,920	1,921	1,921	2.7	5.5	347	397	428	14.4	7.8	745	724	755	-2.8	4.3
Khanty-Mansiyskiy National Okrug	124	134	161	8.1	20.1	33	43	55	30.3	27.9	91	91	106	0	16.5
Yamalo-Nenetskiy National Okrug	62	64	65	3.2	1.6	22	24	26	9.1	8.3	40	39	39	0	-2.5
Other	906	923	937	1.9	3.7	292	330	347	13.0	5.2	614	614	610	-3.4	-2.9
Ulyanovskaya Oblast	1,117	1,181	1,153	1.3	1.9	404	432	477	4.7	4.7	1,264	1,264	1,264	-2.0	-3.3
Chelyabinskaya Oblast	2,977	3,100	3,190	4.1	2.9	2,276	2,390	2,464	5.0	3.1	701	701	726	-1.3	2.3
Chitinskaya Oblast	1,036	1,046	1,057	1.0	1.1	564	594	606	5.3	2.0	472	452	461	-4.2	2.0
Ajinskii Buryat'skiy National Okrug	49	53	56	8.2	5.7	564	6	7	4.3	16.7	49	47	49	-4.1	4.3
Other	987	985	1,001	.6	.8	588	588	599	1.9	1.9	423	405	412	-4.3	-1.7
Yaroslavskaya Oblast	1,336	1,392	1,392	-3	0	814	853	889	4.8	4.2	582	559	539	-7.4	-6.7
Bashkir'skaya A.S.S.R.	3,342	3,464	3,603	3.7	4.0	1,281	1,403	1,506	9.5	7.3	2,061	2,097	2,047	0	1.7
Burjat'skaya A.S.S.R.	3,673	711	737	5.6	3.7	276	294	313	6.5	6.5	387	417	424	5.0	5.0
Dagestan'skaya A.S.S.R.	1,063	1,165	1,222	9.6	4.9	315	346	375	9.8	8.4	819	847	819	3.4	3.4
Kabardino-Balkarskaya A.S.S.R.	420	455	485	8.3	6.6	166	181	196	9.0	8.3	254	274	289	7.9	6.5
Kalmykskaya A.S.S.R.	185	188	219	4.3	13.5	39	46	59	17.9	28.3	146	147	160	-7	8.8
Karel'skaya A.S.S.R.	651	659	673	1.2	2.1	409	423	455	4.6	6.3	242	231	218	-4.5	-5.6
Komi A.S.S.R.	806	851	903	5.6	6.1	475	519	556	9.3	8.9	331	331	333	-1.8	-1.8
Mariy'skaya A.S.S.R.	648	657	657	2.2	-1.8	183	203	218	10.9	7.4	465	459	439	-1.3	-4.4
Mordov'skaya S.S.R.	1,000	1,003	1,007	3	3	1,276	1,300	1,334	2.7	2.7	817	769	750	-5.9	-2.5
Serovo-Ochotskaya A.S.S.R.	1,451	1,459	1,487	4.0	3.8	238	252	273	5.9	8.3	213	217	214	1.9	-1.4
Tatarskaya A.S.S.R.	2,850	2,948	3,011	3.4	2.1	1,190	1,280	1,346	7.6	5.2	1,660	1,668	1,665	-4.5	-3.3
Udmurtskaya A.S.S.R.	1,357	1,368	1,377	2.3	1.7	594	661	693	11.3	4.8	743	732	732	-4.9	-3.3
Checheno-Ingushskaya A.S.S.R.	710	840	922	18.3	9.8	294	327	370	11.8	11.8	416	513	552	-23.3	-7.6
Chuvashskaya A.S.S.R.	1,058	1,157	1,153	3.6	2.0	263	294	317	11.8	11.8	835	843	826	-2.0	-4.6
Yakutskaya A.S.S.R.	458	527	577	8.0	9.5	240	265	303	10.4	14.3	248	274	262	6.6	6.6

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TABLE I-8.—Total, urban, and rural population of the U.S.S.R., by republic, kray, and oblast; 1959-63—Continued
 Population figures in thousands. Figures for 1959 refer to the census of January 15; those for 1961 and 1963 are official estimates for Jan. 1. A minus (-) denotes a decrease]

Area	Total						Urban						Rural														
	1959		1961		1963		Percent change, 1959 to 1961		1959		1961		1959		1961		1959		1961		1959		1961				
	1959	1961	1959	1961	1959	1961	1959	1961	1959	1961	1959	1961	1959	1961	1959	1961	1959	1961	1959	1961	1959	1961	1959	1961			
Ukrainian S.S.R.	41,859	43,091	44,054	2,9	2,9	2,2	19,147	20,823	21,859	8,8	5,0	22,722	22,268	22,196	-2,0	-3	-	-	-	-	-	-	-	-	-		
Vinnitskaya Oblast	2,142	2,160	2,164	8	1,5	1,5	231	267	278	6,1	6,8	1,779	1,775	1,753	-2	-1,2	-	-	-	-	-	-	-	-	-		
Dnepropetrovskaya Oblast	2,705	2,825	2,854	5,5	2,8	1,8	1,899	2,070	2,182	15,6	4,1	6,89	6,68	6,61	-2,7	-2,5	-	-	-	-	-	-	-	-	-		
Zhitomirskaya Oblast	1,804	1,898	1,906	1	1,4	1,4	265	279	289	9,0	5,4	806	784	781	-2,6	-2,7	-	-	-	-	-	-	-	-	-		
Zakarpatskaya Oblast	920	966	999	6,0	3,4	3,4	279	279	279	5,3	3,6	655	687	710	1,129	1,129	4,9	3,3	-	-	-	-	-	-	-		
Zaporozhskaya Oblast	1,464	1,576	1,576	4,4	3,1	3,1	829	893	941	7,7	5,4	635	635	635	-2	-1,5	-	-	-	-	-	-	-	-	-		
Ivano-Frankovskaya Oblast	1,085	1,138	1,171	3,9	2,9	2,9	250	292	312	16,8	6,8	845	846	850	-1	1,5	-	-	-	-	-	-	-	-	-		
Kirovogradskaya Oblast	2,823	2,934	3,034	3,9	3,4	3,4	1,548	1,666	1,771	7,6	6,3	1,275	1,268	1,263	-1,6	-1,4	-	-	-	-	-	-	-	-	-		
Kryvyy Rihskaya Oblast	1,218	1,241	1,252	1,9	1,9	1,9	1,376	1,417	1,448	10,9	7,5	642	642	644	-2,1	-2,4	-	-	-	-	-	-	-	-	-		
Luhanskaya Oblast	1,201	1,297	1,352	8,0	7,3	7,3	775	860	905	9,7	6,5	426	447	487	4,9	8,9	-	-	-	-	-	-	-	-	-		
L'vovskaya Oblast	2,452	2,573	2,648	4,9	2,9	1,944	2,112	2,198	8,6	3,8	508	508	508	-9,3	-1,3	-	-	-	-	-	-	-	-	-	-		
Lvovskaya Oblast	2,108	2,185	2,267	3,7	3,8	3,8	821	883	964	8,8	8,0	1,287	1,292	1,303	4	9	-	-	-	-	-	-	-	-	-		
Nikolaevskaya Oblast	1,014	1,034	1,063	1,7	2,1	2,1	400	430	451	7,5	4,9	614	614	602	-2,1	-1,2	-	-	-	-	-	-	-	-	-		
Odesskaya Oblast	2,027	2,083	2,131	2,8	2,3	2,3	957	1,010	1,063	5,5	5,2	1,070	1,073	1,068	-3	-1,5	-	-	-	-	-	-	-	-	-		
Poltavskaya Oblast	1,632	1,647	1,662	9	9	9	484	526	558	8,7	6,1	1,148	1,121	1,104	-2,4	-1,5	-	-	-	-	-	-	-	-	-		
Rovenskaya Oblast	926	981	980	3,8	3,0	3,0	1,58	215	220	36,1	6,5	788	788	761	-2,9	-2,0	-	-	-	-	-	-	-	-	-		
Donetskaya Oblast	4,262	4,439	4,555	4,2	2,6	3,6	3,656	3,855	3,976	6,4	3,1	606	606	584	-3,6	-3,9	-	-	-	-	-	-	-	-	-		
Sumykskaya Oblast	1,514	1,528	1,529	1,529	1,529	1,529	485	532	604	9,7	9,7	1,029	996	996	-3,2	-3,2	-	-	-	-	-	-	-	-	-		
Ternopol'skaya Oblast	1,086	1,116	1,134	2,8	1,6	1,6	180	210	229	16,7	9,0	906	906	905	0	0	-	-	-	-	-	-	-	-	-		
Khar'kovskaya Oblast	2,520	2,578	2,601	2,3	2,3	2,3	1,574	1,632	1,738	7,5	4,9	946	946	886	-6,3	-6,3	-	-	-	-	-	-	-	-	-		
Khersonskaya Oblast	824	842	837	2,2	6,5	6,5	332	338	420	16,9	8,2	492	492	477	-7,7	-5,1	-	-	-	-	-	-	-	-	-		
Khmel'nitskaya Oblast	1,611	1,628	1,627	1,1	1,1	1,1	305	345	363	15,1	3,4	1,306	1,306	1,264	-2,2	-1,0	-	-	-	-	-	-	-	-	-		
Cherkasskaya Oblast	1,503	1,482	1,486	-1,4	-1	-1	345	377	387	9,3	5,3	1,158	1,158	1,089	-4,6	-4,6	-	-	-	-	-	-	-	-	-		
Chernigovskaya Oblast	1,554	1,561	1,570	1,570	1,570	1,570	350	434	461	24,0	6,2	1,204	1,204	1,109	-6,4	-6,4	-	-	-	-	-	-	-	-	-		
Chernovitskaya Oblast	774	755	814	2,7	2,7	2,7	263	237	245	16,7	3,4	571	571	568	-2,3	-2,3	-	-	-	-	-	-	-	-	-		
Belorussian S.S.R.	8,055	8,226	8,413	2,1	2,3	2,3	2,481	2,779	3,087	12,0	9,3	5,374	5,447	5,376	-2,3	-1,3	-	-	-	-	-	-	-	-	-	-	
Brestskaya Oblast	1,206	1,210	1,211	4	4	4	284	323	346	13,7	7,1	921	921	887	-3,7	-2,5	-	-	-	-	-	-	-	-	-	-	
Vitebskaya Oblast	1,247	1,289	1,313	3,4	1,9	1,9	494	486	503	15,3	7,9	943	943	910	-2,4	-1,6	-	-	-	-	-	-	-	-	-	-	
Gomel'skaya Oblast	1,357	1,381	1,436	2,5	3,2	3,2	438	438	476	12,6	8,7	968	968	933	-1,6	-1,7	-	-	-	-	-	-	-	-	-	-	
Grodno'skaya Oblast	1,077	1,090	1,104	1,2	1,2	1,2	251	290	309	11,6	10,4	826	826	795	-1,9	-1,9	-	-	-	-	-	-	-	-	-	-	
Minskaya Oblast	2,637	2,664	2,653	1,3	4,3	4,3	738	897	972	9,3	12,1	1,244	1,244	1,181	-3,8	-3,8	-	-	-	-	-	-	-	-	-	-	
Mogilevskaya Oblast	1,132	1,182	1,196	4,4	1,2	1,2	360	431	431	12,5	6,4	772	772	765	.6	.6	-1,5	-1,5	-	-	-	-	-	-	-	-	-

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	8,262	8,336	9,492	6.9	7.4	2,775	3,080	3,360	11.0	9.1	5,503	5,756	6,132	4.6	6.5	
Uzbek S.S.R.				1,237	1,481	6.4	9.7	298	320	385	7.4	20.3	585	917	1,096	
Andizhenskaya Oblast	1,163	1,641	9.6	1,702	1,181	6.5	9.5	130	151	175	16.2	15.9	435	490	527	
Bukharskaya Oblast	1,585	1,025	1,032	1,151	6.5	8.2	314	317	334	1.0	5.4	727	775	847	7.7	
Samaranskaya Oblast	919	933	1,073	8.1	8.1	8.1	8.1	132	147	160	11.4	8.8	787	913	947	6.6
Sur'ianskaya Oblast	512	556	602	8.6	8.6	7.3	7.3	71	106	137	49.3	29.2	441	450	465	7.5
Syrdar'inskaya Oblast	2,028	2,151	2,309	6.1	6.1	7.3	1,254	1,454	1,553	12.4	6.8	734	697	756	2.0	
Tashkentskaya Oblast	1,139	1,188	1,188	6.9	-7.0	333	366	365	70	77	9.9	-8	906	832	775	-5.0
Termezskaya Oblast	381	404	433	6.0	7.2	64	64	64	70	77	9.4	10.0	317	324	356	-5.7
Karuzenskaya Oblast	510	544	573	6.7	5.3	139	149	149	176	176	7.2	8.1	371	385	397	-6.0
Karakalpakskaia A.S.S.R.	510	544	573	6.7	5.3	139	149	149	176	176	7.2	8.1	371	385	397	-5.5
Kazakh S.S.R.	9,310	10,387	11,270	11.6	8.5	4,067	4,622	5,096	13.6	10.3	5,233	5,765	6,174	10.0	-7.1	
Zapadno-Kazakhstanskii Kray	1,070	1,167	1,257	9.1	7.7	449	485	521	8.0	7.4	621	682	736	9.8	7.9	
Aktiyninskaya Oblast	401	439	477	9.5	1.8	174	188	207	8.0	10.1	227	251	270	10.6	7.6	
Gur'yevskaya Oblast	288	313	335	8.7	7.0	162	176	190	8.6	8.0	193	137	145	8.7	5.8	
Uralskaya Oblast	381	415	445	8.9	7.2	113	121	121	7.1	2.5	268	284	321	9.7	9.2	
Tselinnyy Kray	2,758	3,122	3,535	13.4	13.2	856	981	1,149	14.6	17.1	1,897	2,141	2,386	12.9	11.4	
Kokchetavskaya Oblast	493	554	612	12.4	10.5	122	139	159	13.9	14.4	371	415	453	11.9	9.2	
Kustanarskaya Oblast	711	833	931	17.2	17.2	188	228	267	21.3	17.1	523	615	664	15.7	9.8	
Parlodarskaya Oblast	455	526	605	15.6	15.0	132	164	204	16.7	32.5	323	372	401	15.2	7.8	
Sverdo-Kazakhstanskii Oblast	457	495	556	8.3	8.3	156	167	181	8.4	8.4	301	328	375	9.0	14.3	
Tselinogradskaya Oblast	637	714	831	12.1	16.4	288	338	338	13.6	15.4	379	421	458	11.1	17.1	
Yuzhno-Kazakhstanskii Kray	1,654	1,778	1,900	7.5	6.9	637	726	780	10.5	7.4	997	1,032	1,120	6.5	6.5	
Dzhambulskaya Oblast	562	637	637	6.2	6.7	202	220	245	13.9	6.5	360	367	392	1.9	6.3	
Kyzyl-Ordinskaya Oblast	327	341	365	4.3	7.0	182	163	177	7.2	8.6	175	178	188	1.7	5.6	
Chimkentskaya Oblast	765	840	888	9.8	6.9	303	333	358	9.9	7.5	462	507	540	6.7	6.5	
Alma-Atinskaya Oblast	1,403	1,569	1,734	11.8	10.5	635	760	839	16.0	10.4	748	809	885	8.2	10.6	
Semipalatinskaya Oblast	1,019	1,212	1,369	18.9	13.0	798	962	1,078	20.6	12.1	221	250	291	13.1	16.4	
Vostochno-Kazakhstanskaya Oblast	520	572	641	10.0	12.1	228	247	266	8.8	7.7	292	325	375	11.3	15.4	
Georgia S.S.R.	4,044	4,200	4,342	3.9	3.4	1,713	1,818	1,968	6.1	8.3	2,331	2,352	2,374	2.2	-3	
Abkharskaya A.S.S.R.	405	426	442	5.2	3.8	150	155	172	3.3	0	255	271	270	6.3	-4	
Adzharskaya A.S.S.R.	245	260	273	6.1	5.0	111	117	123	5.4	5.1	134	143	150	6.7	4.9	
Yugo-Osetinskaya Autonomous Oblast	97	98	101	1.0	3.1	24	31	34	9.7	7.3	67	67	67	0	0	
Other	3,297	3,416	3,526	3.6	3.2	1,428	1,515	1,639	6.1	8.2	1,869	1,901	1,877	1.7	-7	
Azerbaydzhan S.S.R.	3,698	3,973	4,232	7.4	6.5	1,767	1,988	2,194	10.8	7.5	1,931	2,015	2,128	4.4	5.6	
Nakhichevanskaya A.S.S.R.	141	154	162	9.2	5.2	38	41	41	7.9	0	103	113	121	9.7	7.1	
Nagorno-Karabahskaya Autonomous Oblast	131	139	143	6.1	2.9	27	43	43	7.5	10.3	104	110	117	-4.8	1.0	
Other	3,426	3,680	3,927	7.4	6.7	1,702	1,877	2,020	10.3	7.6	1,724	1,803	1,907	4.6	6.8	

TABLE I-8.—*Total, urban, and rural population of the U.S.S.R., by republic, kray, and oblast: 1959-53—Continued*

[Population figures in thousands. Figures for 1959 refer to the census of January 15; those for 1961 and 1963 are official estimates for Jan. 1. A minus (-) denotes a decrease]

Area	Total				Urban				Rural			
	1959	1961	1963	Percent change, 1959 to 1961	1959	1961	1963	Percent change, 1959 to 1961	1959	1961	1963	Percent change, 1959 to 1961
Lithuanian S.S.R.	2,711	2,904	2,878	3.4	1,046	1,123	1,203	7.4	7.1	1,665	1,681	1,675
Moldavian S.S.R.	2,885	3,040	3,172	5.4	643	727	733	13.1	7.7	2,242	2,313	2,389
Latvian S.S.R.	2,093	2,142	2,187	2.3	1,174	1,223	1,303	5.0	5.7	919	906	894
Kirgiz S.S.R.	2,086	2,225	2,379	7.7	696	775	834	11.4	15.4	1,370	1,450	1,458
Oshskaya Oblast.	870	933	986	7.2	279	312	329	11.8	8.7	561	621	647
Other...	1,196	1,222	1,393	8.0	7.8	417	463	655	11.0	19.9	779	829
Tadzhik S.S.R.	1,980	2,104	2,267	6.3	7.7	646	723	778	11.9	7.6	1,334	1,381
Gorno-Badakhshanskaya Autonomous Oblast.	73	80	83	9.6	3.8	8	9	10	12.5	11.1	65	71
Other...	1,907	2,024	2,184	6.1	7.9	638	714	768	11.9	7.6	1,269	1,310
Armenian S.S.R.	1,763	1,893	2,007	7.4	6.0	832	973	1,069	10.3	9.9	831	920
Turkmen S.S.R.	1,516	1,626	1,744	7.3	7.3	700	771	844	10.1	9.5	816	855
Estonian S.S.R.	1,197	1,221	1,244	2.0	1.9	676	706	751	4.4	6.4	521	515

Source: Tsentral'noye statisticheskoye upravleniye pri sotrudnike ministrov SSSR, *Narodnoye khozyaystvo SSSR v 1959 godu, statisticheskiy zhurnal* ("The National Economy of the U.S.S.R. in 1959, A Statistical Yearbook"), Moscow, Gosstatizdat, 1960, p. 27-38; *Narodnoye khozyaystvo SSSR v 1960 godu, statisticheskiy zhurnal* ("The National Economy of the U.S.S.R. in 1960, A Statistical Yearbook"), Moscow, Gosstatizdat, 1961, pp. 49-49; *Narodnoye khozyaystvo SSSR v 1961 godu, statisticheskiy zhurnal* ("The National Economy of the U.S.S.R. in 1961, A Statistical Yearbook"), Moscow, Gosstatizdat, 1962, pp. 15-19; and *Narodnoye khozyaystvo SSSR v 1962 godu, statisticheskiy zhurnal* ("The National Economy of the U.S.S.R. in 1962, A Statistical Yearbook"), Moscow, Gosstatizdat, 1963, pp. 16-22.

TABLE I-9.—*Population of cities in the U.S.S.R. with 1963 populations of 100,000 inhabitants or more, by republic and oblast, 1939, 1959, 1961, 1962, and 1963*

[Population figures in thousands. Figures for 1939 presumably relate to the beginning of the year; those for 1959 to the census of Jan. 15. Figures for other years are official estimates for Jan. 1. Data for 1963 are available for administrative centers of oblasts, krais, and republics only; thus, no totals are shown for administrative subdivisions for that year, and (n.a.) indicates not available. Figures enclosed in parentheses are not official Soviet estimates. A minus sign (-) in the percent column denotes a decrease]

Republic, krai, oblast, and city	Population					Percent change
	1939	1959	1961	1962	1963	
U.S.S.R.						
35,119	52,706	56,420	57,839	(n.a.)	60,7	50.1
R.S.F.S.R.						
Altayskiy Kray	22,724	34,485	36,762	37,621	(n.a.)	61.7
Barnaul	266	602	623	639	(n.a.)	134.2
Biysk	148	305	338	347	(n.a.)	357
Rubtsovsk	80	146	162	165	(n.a.)	102.5
Srednekolymskiy Kray	38	111	123	127	(n.a.)	223.7
Khakasskiy Kray	278	500	538	555	(n.a.)	93.5
Khabarovsk	207	323	349	368	377	68.6
Komsomolsk-na-Amure	71	177	189	192	(n.a.)	166.2
Krasnodarskiy Kray	443	644	724	755	(n.a.)	63.4
Armavir	84	111	120	123	(n.a.)	42.9
Krasnodar	138	313	343	354	(n.a.)	308
Novorossiysk	95	98	101	104	(n.a.)	6.3
Sochi	71	127	160	174	(n.a.)	125.4
Krasnoyarskiy Kray	190	412	468	485	(n.a.)	146.3
Krasnoyarsk	190	412	468	495	493	146.3
Primorskiy Kray	278	395	428	438	(n.a.)	54.0
Ussuriysk	72	104	111	113	(n.a.)	54.2
Vladivostok	206	291	317	325	338	33.9
Stavropol'skiy Kray	85	141	151	154	158	177.6
Starropol'	85	141	151	154	158	177.6

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TABLE I-9.—Population of cities in the U.S.S.R. with 1963 populations of 100,000 inhabitants or more, by republic and oblast, 1939, 1959, 1961, 1962, and 1963—Continued

[Population figures in thousands. Figures for 1959 presumably relate to the beginning of the year; those for 1959 to the census of Jan. 15. Figures for other years are official estimates and (n.a.) indicate not available. Data for 1963 are available for administrative centers of oblasts, krais, and republics only, thus, no totals are shown for administrative subdivisions for that year, in the percent columns denotes a decrease]

Republic, krai, oblast, and city	Population					Percent change		Percent change	
	1939	1959	1961	1962	1963	1939-59	1959-61	1959-62	1962-63
R.S.F.S.R.—Continued									
Kerch'yevo-Cherkesskaya Autonomous Oblast	52	85	95	99	103	82.7	63.5	11.8	4.2
Cherkessy	52	85	95	99	103	82.7	63.5	11.8	4.0
Amur'skaya Oblast	59	95	99	101	104	67.8	61.0	4.2	4.0
Blagoveshchensk	59	95	99	101	104	67.8	61.0	2.0	3.0
Arkhangel'skaya Oblast	251	256	271	276	286	8.0	2.0	5.9	1.8
Arkhangel'sk	251	256	271	276	286	8.0	2.0	5.9	3.6
Astrakhan'skaya Oblast	254	296	313	320	324	23.2	16.5	5.7	2.2
Astrakhan	254	296	313	320	324	23.2	16.5	5.7	1.3
Bryanskaya Oblast	174	207	231	241	249	22.8	19.0	11.6	2.2
Bryansk	174	207	231	241	249	22.8	19.0	11.6	1.3
Chelyabinskaya Oblast	616	1,421	1,502	1,528	(n.a.)	143.8	130.7	5.7	1.7
Chelyabinsk	616	1,421	1,502	1,528	(n.a.)	143.8	130.7	5.7	1.7
Kopeysk	273	639	733	751	767	168.5	152.4	6.4	2.5
Magnitogorsk	60	161	168	168	168	(n.a.)	180.0	168.3	2.1
Mias	146	311	328	333	333	(n.a.)	124.7	113.0	(n.a.)
Zlatoust	38	99	107	109	109	(n.a.)	181.6	160.5	1.9
Chitinskaya Oblast	99	161	166	167	167	(n.a.)	67.7	62.6	3.1
Chita	121	172	182	185	189	50.4	42.1	5.8	1.6
Gor'kovskaya Oblast	747	1,106	1,179	1,205	(n.a.)	57.8	48.1	6.6	2.2
Dzerzhinsk	103	164	176	180	(n.a.)	70.9	59.2	7.5	2.3

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Gor'kiy.....	644	942	1,003	1,025	1,042	55.7	46.3	6.5	2.2	1.7
Irkutskaya Oblast.....	306	623	656	654	(n.s.)	114.4	103.6	5.3	1.2	(n.s.)
Angarsk.....	(1) 56	134	154	160	(n.a.)	(1) 117.9	(1) 119.6	14.9	3.9	(n.a.)
Olenyokovo.....	230	123	122	119	(n.a.)	320	390	46.4	-2.5	1.3
Irkutsk.....	386	380	385	360				3.8	1.3	1.3
Ivanovskaya Oblast.....	285	385	352	360				23.5	2.3	2.2
Ivanovo.....	285	335	352	360				23.5	5.1	2.3
Kathinogradskaya Oblast.....	(?)	204	226	222		238	(?)	(?)	10.8	2.7
Kaliningrad.....	(?)	204	226	222		238	(?)	(?)	10.8	2.7
Kalininskaya Oblast.....	216	261	279	286		292	29.2	20.8	6.9	2.5
Kalinin.....	216	261	279	286		292	29.2	20.8	6.9	2.5
Kaludzhskaya Oblast.....	89	134	145	151		157	62.9	50.6	8.2	4.1
Kaluga.....	89	134	145	151		157	62.9	50.6	8.2	4.1
Kamchatskaya Oblast.....	35	86	96	100		106	174.3	245.7	11.6	4.2
Petrovsk-Kamchatskiy.....	35	86	96	100		106	174.3	245.7	11.6	4.2
Kemerovskaya Oblast.....	645	1,422	1,508	1,527	(n.a.)	133.8	120.5	6.0	1.3	(n.a.)
Anzhero-Sudzhensk.....	69	116	119	120	(n.a.)	72.5	68.1	2.6	.8	(n.a.)
Belovo.....	43	107	115	118	(n.a.)	107.4	148.8	7.5	2.6	(n.a.)
Kemerovo.....	133	278	308	306	(n.a.)	124.1	109.0	7.2	2.3	7.5
Kislovsk.....	44	130	141	142	(n.a.)	220.5	195.5	8.5	1.7	(n.a.)
Lenninsk-Kuznetskiy.....	85	132	138	140	(n.a.)	166.3	59.0	4.5	1.4	(n.a.)
Prokop'yevsk.....	107	232	292	292	(n.a.)	172.9	163.6	3.5	0	(n.a.)
Norokuznetsk.....	166	377	405	410	(n.a.)	144.0	127.1	7.4	1.2	(n.a.)
Kirovskaya Oblast.....	144	262	269	277		284	86.8	75.0	6.7	3.0
Kirov.....	144	252	269	277		284	86.8	75.0	6.7	3.0
Kostromskaya Oblast.....	121	172	184	189		193	32.1	42.1	7.0	2.7
Kostroma.....	121	172	184	189		193	32.1	42.1	7.0	2.7
Kurganskaya Oblast.....	53	146	164	173		182	209.4	175.6	12.3	5.5
Kurgan.....	53	146	164	173		182	209.4	175.5	12.3	5.5

See footnotes at end of table, p. 25.

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ANNUAL ECONOMIC INDICATORS FOR THE U.S.S.R.

TABLE I-9.—*Population of cities in the U.S.S.R. with 1963 populations of 100,000 inhabitants or more, by republic and oblast, 1959, 1959, 1959, 1961, 1962, and 1963—Continued*

[Population figures in thousands. Figures for 1959 presumably relate to the beginning of the year; those for 1959 to the census of Jan. 15. Figures for other years are official estimates and (n.a.) indicate not available. Data for 1963 are available for administrative centers of oblasts, krais, and republics only; thus, no totals are shown for administrative subdivisions for that year, in the percent columns denotes a decrease. Figures enclosed in parentheses are not official Soviet estimates. A minus sign (-) indicates not available.]

Republic, krai, oblast, and city	Population						Percent change
	1953	1959	1961	1962	1963	1959-61	
R.S.F.S.R.—Continued							
Kursk Oblast							
Kirsk	120	205	222	228	233	85.0	70.8
Kuibyshevskaya Oblast	120	205	222	228	233	86.0	70.8
Kuryazhev	473	955	1,020	1,040	(n.a.)	115.6	101.9
Syzran	390	806	883	881	901	121.3	106.7
Leningradskaya Oblast	83	149	157	159	(n.a.)	89.2	79.5
Leningrad	3,385	3,321	3,445	3,498	3,552	1.8	-1.9
Lipetskaya Oblast	3,385	3,321	3,445	3,498	3,552	1.8	-1.9
Lipetsk	67	157	183	194	205	173.1	134.3
Moskovskaya Oblast	67	157	183	194	205	173.1	134.3
Elektrostal'	5,028	6,764	7,000	7,103	(n.a.)	38.2	34.5
Kolomna	43	97	102	105	(n.a.)	137.2	125.6
Izhevsk	75	100	124	125	(n.a.)	65.3	33.3
Lyubertsy	46	91	100	100	(n.a.)	100	65.3
Yaroslavl'	4,542	6,039	6,208	6,296	6,354	117.4	97.8
Menshichi	60	99	104	107	107	36.7	33.0
Orekhovo-Zuyev	99	108	112	113	(n.a.)	73.3	65.0
Podolsk	72	124	139	144	(n.a.)	13.1	9.1
Serpukhov	91	106	111	113	(n.a.)	93.1	72.2
Murmansk Oblast	119	222	237	245	254	22.0	16.5
Murmansk	119	222	237	245	254	99.2	86.6
Novosibirskaya Oblast	404	886	963	985	980	234	99.2
Novosibirsk	404	886	963	985	990	138.4	119.3

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Omsk Oblast	289	581	630	650	674	118.0	101.0	8.4	3.2	3.7
Omsk	289	581	630	650	674	118.0	101.0	8.4	3.2	3.7
Orenburgskaya Oblast	238	443	477	487	(n.a.)	100.4	86.1	7.7	2.1	(n.a.)
Orenburg	172	267	282	288	(n.a.)	64.0	55.2	5.6	2.1	1.7
Orsk	66	176	195	199	(n.a.)	165.5	166.7	10.8	2.1	(n.a.)
Olovianskaya Oblast	111	150	167	174	183	50.5	35.1	11.3	4.2	5.2
Orel	111	150	167	174	183	50.5	35.1	11.3	4.2	5.2
Penza Oblast	160	255	277	286	296	73.1	59.4	8.6	3.2	3.5
Penza	160	255	277	286	296	73.1	59.4	8.6	3.2	3.5
Permkskaya Oblast	357	735	795	821	(n.a.)	122.7	105.9	8.2	3.3	(n.a.)
Berezinski	51	106	117	120	(n.a.)	129.4	107.8	10.4	2.6	(n.a.)
Perm	306	629	678	701	722	121.6	105.6	7.8	3.4	3.0
Pskovskaya Oblast	60	81	93	98	101	55.0	35.0	14.8	5.4	3.1
Pskov	60	81	93	98	101	55.0	35.0	14.8	5.4	3.1
Rostovskaya Oblast	882	1,102	1,168	1,190	(n.a.)	32.4	24.9	6.0	1.9	(n.a.)
Novocherkassk	48	104	108	108	(n.a.)	125.0	116.7	3.8	0	(n.a.)
Rostov-na-Donu	510	600	645	661	689	26.5	17.6	7.5	2.5	4.2
Shakhty	135	196	201	201	(n.a.)	48.9	45.2	2.6	0	(n.a.)
Taganrog	189	202	214	220	(n.a.)	13.2	6.9	5.9	2.8	(n.a.)
Ryazanskaya Oblast	96	214	240	252	262	152.6	125.3	12.1	5.0	4.0
Ryazan'	95	214	240	252	262	152.6	125.3	12.1	5.0	4.0
Saratovskaya Oblast	441	672	724	737	(n.a.)	64.2	52.4	7.4	1.8	(n.a.)
Engel's	69	91	102	106	(n.a.)	47.8	31.9	12.1	3.9	(n.a.)
Saratov	372	581	622	631	644	67.2	56.2	7.1	1.4	2.1
Smolenskaya Oblast	157	147	159	164	170	1.3	-6.4	8.2	3.1	3.7
Smolensk	157	147	159	164	170	1.3	-6.4	8.2	3.1	3.7

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 18 ANNUAL ECONOMIC INDICATORS FOR THE U.S.S.R.

TABLE I-9.—Population of cities in the U.S.S.R. with 1963 populations of 100,000 inhabitants or more, by republic and oblast, 1939, 1959,

1961, 1962, and 1963—Continued

(Population figures in thousands. Figures for 1939 presumably relate to the beginning of the year; those for 1959 to the census of Jan. 15. Figures for other years are official estimates for Jan. 1. Data for 1963 are available for administrative centers of oblasts, krais, and republics only; thus, no totals are shown for administrative subdivisions for that year, and (n.a.) indicates not available. Figures enclosed in parentheses are not official Soviet estimates. A minus sign (−) in the percent column denotes a decrease.)

Republic, krai, oblast, and city	Population						Percent change
	1939	1959	1961	1962	1963	1939–61	
R.S.F.S.R.—Continued							1939–63
Sverdlovskaya Oblast.....	743	1,447	1,541	1,570	(n.a.)	107.4	94.8
Kamensk-Uralskiy.....	51	141	161	152	(n.a.)	176.5	6.5
Nizhniy Tagil.....	160	339	355	359	(n.a.)	121.9	111.9
Pervouralsk.....	44	90	101	104	(n.a.)	129.5	4.7
Sverdlovsk.....	423	779	822	933	(n.a.)	104.5	12.2
Setov.....	65	98	102	102	(n.a.)	96.7	84.2
Tambovskaya Oblast.....	106	172	186	189	194	75.5	30.8
Tambov.....	106	172	186	189	194	75.5	62.3
Tomskaya Oblast.....	145	249	269	275	282	85.5	71.7
Tomsk.....	145	249	268	275	282	85.5	71.7
Tul'skaya Oblast.....	348	423	445	456	(n.a.)	27.9	21.6
Novorossiyskoye.....	76	107	112	114	(n.a.)	47.4	40.8
Tula.....	272	316	333	342	(351)	22.4	16.2
Tyumen'skaya Oblast.....	79	130	148	174	178	112.7	89.9
Tyumen.....	79	130	148	174	178	112.7	89.9
Taymurskiy National Okrug.....	14	109	109	117	(n.a.)	678.6	678.6
Noril'sk.....	14	109	109	117	(n.a.)	678.6	678.6
Ulyanovskaya Oblast.....	98	206	226	239	247	130.6	110.2
Ulyanovsk.....	98	206	226	239	247	130.6	110.2
Vladimirskaya Oblast.....	134	253	270	279	(n.a.)	101.5	88.8
Vladimir.....	67	154	167	174	181	149.3	128.9

	67	99	103	105	(n.a.)	53.7	47.8	4.0	1.9	(P.B.)
Kovrov	127	231	261	273	(n.a.)	105.5	81.9	13.0	4.6	(n.s.)
Vologodskaya Oblast	32	92	113	124	(n.a.)	232.1	187.5	22.8	9.7	(n.s.)
Cherenovets	96	139	148	149	152	55.8	46.3	6.5	.7	2.0
Vologda										
Vologradskaya Oblast	445	592	632	649	668	42.0	33.0	6.8	2.7	2.2
Volgograd	445	592	632	649	663	42.0	33.0	6.8	2.7	2.2
Voronezhskaya Oblast	344	448	496	516	535	44.2	30.2	10.7	4.0	3.7
Voronezh	344	448	496	516	535	44.2	30.2	10.7	4.0	3.7
Yaroslavskaya Oblast	453	589	625	638	(n.a.)	38.0	30.0	6.1	2.1	(n.s.)
Rybinsk	144	182	192	195	(n.s.)	33.3	26.4	5.5	1.6	(n.s.)
Yaroslavl'	309	407	433	443	454	40.1	31.7	6.4	2.3	2.5
Bashkirskaya A.S.S.R.	297	659	713	741	(n.a.)	140.1	121.9	8.2	3.9	(n.s.)
Sterlitamak	39	112	125	131	(n.a.)	220.5	187.2	11.6	4.8	(n.s.)
Ufa	258	547	588	610	630	127.9	112.0	7.5	3.7	3.3
Buryatskaya A.S.S.R.	126	175	188	196	201	49.2	38.9	7.4	4.3	2.6
Ulan-Ude	126	175	188	196	201	49.2	38.9	7.4	4.3	2.6
Checheno-Ingushskaya A.S.S.R.	172	242	270	280	300	57.0	40.7	11.6	3.7	7.1
Grozny	172	242	270	280	300	57.0	40.7	11.6	3.7	7.1
Chuvashskaya A.S.S.R.	31	104	123	134	142	296.8	235.5	18.3	8.9	6.0
Cheboksary	31	104	123	134	142	296.8	235.5	18.3	8.9	6.0
Dagestanskaya A.S.S.R.	87	119	129	135	140	48.3	36.8	8.4	4.7	3.7
Makhachkala	87	119	129	135	140	48.3	36.8	8.4	4.7	3.7
Kabardino-Balkarskaya A.S.S.R.	48	88	98	102	106	104.2	83.3	11.4	4.1	3.9
Nal'chik	48	88	98	102	106	104.2	83.3	11.4	4.1	3.9
Karelskaya A.S.S.R.	70	136	139	142	145	98.6	94.3	2.2	2.2	2.1
Petrozavodsk	70	136	139	142	145	98.6	94.3	2.2	2.2	2.1

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 20 ANNUAL ECONOMIC INDICATORS FOR THE U.S.S.R.

TABLE I-9.—Population of cities in the U.S.S.R. with 1963 populations of 100,000 inhabitants or more, by republic and oblast, 1939, 1959, 1961, 1962, and 1963—Continued

[Population figures in thousands. Figures for 1939 presumably relate to the beginning of the year, those for 1959 to the census of Jan. 15. Figures for other years are official estimates for Jan. 1. Data for 1963 are available for administrative centers of oblasts, krais, and republics only; thus, no figures are shown for administrative subdivisions for that year, and (n.a.) indicates that no data are available, has been placed in all cells for which data are missing. Figures enclosed in parentheses are not official Soviet estimates. A minus sign (-) in the percent columns denotes a decrease]

Republic, krai, oblast, and city	Population						Percent change			
	1939	1959	1961	1962	1963	1939-61	1939-59	1959-61	1961-62	1962-63
R.S.F.S.R.—Continued										
Mariyiskaya A.S.S.R.	27	89	103	110	116	281.5	229.6	15.7	6.8	5.5
Yoshkar-Ola	27	89	103	110	116	281.5	229.6	15.7	6.8	5.5
Mordovskaya A.S.S.R.	41	94	103	118	124	183.1	122.0	18.7	9.3	5.1
Saransk	41	94	108	118	124	183.4	122.0	18.7	9.3	5.1
Sverdlovskaya A.S.S.R.	131	164	175	183	194	33.6	25.2	6.9	4.6	6.0
Ordzhonikidze	131	164	175	183	194	33.6	25.2	6.9	4.6	6.0
Tatarstarkaya A.S.S.R.	393	647	693	711	725	74.1	62.6	7.1	2.6	2.0
Kazan'	398	647	693	711	725	74.1	62.6	7.1	2.6	2.0
Udmurtstarkaya A.S.S.R.	176	285	312	322	330	77.3	61.9	9.5	3.2	2.5
Izhevsk	176	285	312	322	330	77.3	61.9	9.5	3.2	2.5
Ukrainian S.S.R.	6,736	8,839	9,437	9,659	(n.a.)	40.1	31.2	6.8	2.4	(n.a.)
Chernigovskaya Oblast	69	90	101	107	113	46.4	30.4	12.2	5.9	6.6
Chernigov	69	90	101	107	113	46.4	30.4	12.2	5.9	6.6
Chernovitskaya Oblast	106	146	147	150	152	38.7	37.7	.7	2.0	1.3
Chemovtsy	106	146	147	150	152	38.7	37.7	.7	2.0	1.3
Dnepropetrovskaya Oblast	864	1,242	1,346	1,377	(n.a.)	55.8	43.8	8.4	2.3	(n.a.)
Dneprozerzhinsk	148	194	203	207	(n.a.)	37.2	31.1	4.6	2.0	(n.a.)
Dnepropetrovsk	527	666	707	722	738	25.2	7.1	2.1	2.8	2.2
Krivoy Rog.	189	388	436	448	(n.a.)	105.3	130.7	12.4	2.8	(n.a.)

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	1,205	1,749	1,870	1,897	(n.a.)	55.2	45.1	6.8	1.4	(n.a.)
Donetskaya Oblast										
Gorlovka	181	295	307	309	(n.a.)	69.6	61.9	4.8	.7	(n.a.)
Kramatorsk	94	115	123	126	(n.a.)	30.9	22.3	7.0	2.4	(n.a.)
Makarovka	242	338	381	381	(n.a.)	37.4	47.9	6.4	0	(n.a.)
Donetsk	466	699	749	760	(n.a.)	60.7	50.0	7.2	1.5	(n.a.)
Zhdanov	222	284	310	321	(n.a.)	39.6	27.9	9.2	3.5	(n.a.)
Khar'kovskaya Oblast										
Khar'kov	833	934	976	990	1,006	17.2	12.1	4.5	1.4	1.6
Khersonskaya Oblast										
Kherson	97	138	174	183	192	73.4	62.9	10.1	5.2	4.9
Kirovograd Oblast										
Kirovograd	100	128	134	138	142	34.0	28.0	4.7	3.0	2.9
Klyivskaya Oblast										
Klyiv	847	1,104	1,174	1,208	1,248	38.6	30.3	6.3	2.9	* 3.3
Krymskaya Oblast										
Krymsk	361	432	463	478	(n.a.)	28.3	19.7	7.2	3.2	(n.a.)
Kerch'										
Sevastopol'	104	98	104	107	(n.a.)	0	-5.8	6.1	2.9	(n.a.)
Simeferopol'	114	143	163	169	(n.a.)	43.0	20.8	10.1	3.7	(n.a.)
Luganskaya Oblast										
Kadiyevka	143	186	196	202	203	37.1	30.1	5.4	3.1	* .5
Lugansk										
L'vovskaya Oblast										
L'vov	405	553	598	608	(n.a.)	47.7	36.5	8.1	1.7	(n.a.)
Nikoliyevskaya Oblast										
Nikoliyev	135	180	191	192	(n.a.)	41.5	33.3	6.1	5.5	(n.a.)
Luzansk	215	275	300	306	(n.a.)	39.5	27.9	9.1	2.0	(n.a.)
Kommunarsk	55	98	107	110	(n.a.)	94.5	78.2	9.2	2.8	(n.a.)
Odessa										
Poltavskaya Oblast										
Poltava	340	411	436	447	469	28.2	20.9	6.1	2.5	4.9
Pol'skaya Oblast										
Pol'sk	169	226	242	258	263	43.2	33.7	7.1	6.6	1.9
Nikolayev										
Odes'skaya Oblast										
Odes's	602	657	696	704	709	15.6	10.8	4.3	1.1	* .7
Poltavskaya Oblast										
Poltava	128	143	150	154	158	17.2	11.7	4.9	2.7	2.6
Poltava	128	143	150	154	158	17.2	11.7	4.9	2.7	2.6

TABLE I-9.—Population of cities in the U.S.S.R. with 1963 populations of 100,000 inhabitants or more, by republic and oblast, 1939, 1959, 1961, 1962, and 1963—Continued

(Population figures in thousands. Figures for 1939 presumably relate to the beginning of the year; those for 1959 to the census of Jan. 15. Figures for other years are official estimates for Jan. 1. Data for 1963 are available for administrative centers of oblasts, krais, and republics only; thus, no totals are shown for administrative subdivisions for that year, and (n.a.) indicating not available, has been placed in all cells for which data are missing. Figures enclosed in parentheses are not official Soviet estimates. A minus sign (−) in the percent change columns denotes a decrease)

Republie, krai, oblast, and city	Population						Percent change
	1939	1959	1961	1962	1963	1939–61	
Ukrainian S.S.R.—Continued							
Sumskaya Oblast.....	64	98	108	113	117	68.8	53.1
Sumy.....	64	98	108	113	117	68.8	53.1
Vinnitskaya Oblast.....	93	122	131	136	139	40.9	31.2
Vinnitsa.....	93	122	131	136	139	40.9	31.2
Zaporozhskaya Oblast.....	368	530	577	594	(n.a.)	61.2	48.0
Maitenoi'.....	76	95	102	104	(n.a.)	34.2	25.0
Zaporozh'ye.....	232	435	475	490	(507)	68.4	54.3
Zhitomirskaya Oblast.....	96	106	114	117	120	20.0	11.6
Zhitomir.....	95	106	114	117	120	20.0	11.6
Belorussia S.S.R.	726	1,045	1,154	1,208	(n.a.)	59.0	43.9
Gomel'skaya Oblast.....	139	168	184	193	199	32.4	20.9
Gomel'.....	139	168	184	193	199	32.4	20.9
Minskaya Oblast.....	237	509	570	599	644	140.5	114.8
Minsk.....	237	509	570	599	644	140.5	114.8
Mogilevskaya Oblast.....	183	220	238	247	(n.a.)	30.1	20.2
Mogilev.....	184	220	238	247	(n.a.)	30.1	20.2
Bobruysk.....	94	98	104	108	(n.a.)	23.8	16.7
Mogilev.....	99	122	134	139	(145)	35.4	23.2
Vitebskaya Oblast.....	107	148	162	169	174	-3.0	-11.4
Vitebsk.....	107	148	162	169	174	-3.0	-11.4

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Uzbek S.S.R.	936	1,466	1,568	1,617	(n.a.)	67.5	56.6	7.0	3.1	(n.a.)
Andizhanskaya Oblast	165	253	275	283	(n.a.)	66.7	53.3	8.7	2.9	(n.a.)
Andizhan	85	130	141	145	150	65.9	52.9	8.5	2.8	3.4
Namangan	80	123	134	138	(n.a.)	67.5	53.8	8.9	3.0	(n.a.)
Ferganskaya Oblast	85	105	113	117	(n.a.)	32.9	23.5	7.6	3.5	(n.a.)
Kokand	85	105	113	117	(n.a.)	32.9	23.5	7.6	3.5	(n.a.)
Samarkandskaya Oblast	136	196	209	215	220	53.7	44.1	6.6	2.9	2.3
Samariland	136	156	209	215	220	53.7	44.1	6.6	2.9	2.3
Tashkentskaya Oblast	550	912	971	1,002	1,029	76.5	65.8	6.5	3.2	2.7
Kazakh S.S.R.	550	912	971	1,002	1,029	76.5	65.8	6.5	3.2	2.7
Tashkent	934	2,112	2,391	2,503	(n.a.)	150.6	121.4	13.2	4.7	(n.a.)
Tselinnyy Kray	157	409	459	490	(n.a.)	145.5	118.7	12.2	6.8	(n.a.)
Kustanayskaya Oblast	34	86	98	102	105	88.2	152.9	14.0	4.†	2.9
Kustanay	34	86	98	102	105	88.2	152.9	14.0	4.1	2.9
Pavlodarskaya Oblast	29	90	107	115	120	269.0	210.3	18.9	7.5	4.3
Pavlodar	29	90	107	115	120	269.0	210.3	18.9	7.5	4.3
Serovo-Kazachstanstskaya Oblast	92	131	140	146	153	52.2	42.4	6.9	4.3	4.3
Petropavlovsk	92	131	140	146	153	52.2	42.4	6.9	4.3	4.3
Tselinogradskaya Oblast	32	102	114	127	139	226.3	218.8	11.8	11.4	9.4
Tselinograd	32	102	114	127	139	226.3	218.8	11.8	11.4	9.4
Aktubinskaya Oblast	49	97	107	111	116	118.4	98.0	10.3	3.7	4.5
Aktubinsk	49	97	107	111	116	118.4	98.0	10.3	3.7	4.5
Alma-Adinskaya Oblast	222	466	508	534	580	128.8	105.4	11.4	5.1	8.6
Alma-Ata	222	466	508	534	580	128.8	105.4	11.4	5.1	8.6
Dzhambulskaya Oblast	64	113	131	136	139	104.7	76.6	15.9	3.8	2.2
Dzhambul	64	113	131	136	139	104.7	76.6	15.9	3.8	2.2

TABLE I-9.—Population of cities in the U.S.S.R. with 1963 populations of 100,000 inhabitants or more, by republic and oblast, 1939, 1959
1961, 1962, and 1963—Continued

Population figures in thousands. Figures for 1939 presumably relate to the beginning of the year; those for 1959 to the census of Jan. 15. Figures for other years are official estimates for Jan. 1. Data for 1963 are available for administrative centers of oblasts, krais, and republics only; thus, no totals are shown for administrative subdivisions for that year, and (n.a.) indicates not available. Figures enclosed in parentheses are not official Soviet estimates. A minus sign (-) in the percent column denotes a decrease.

Republie, kray, oblast, and city	Population					Percent change				
	1939	1959	1961	1962	1963	1939-61	1939-59	1959-61	1961-62	1962-63
Kazakh S.S.R.—Continued										
Karagandinskaya Oblast	161	474	564	582	(n.a.)	244.1	195.0	16.6	5.1	(n.a.)
Karakalpak	156	387	441	459	462	182.7	154.5	11.1	4.1	1.7
Temirtau	5	77	113	123	(n.a.)	2,160.0	1,440.0	46.8	8.8	(n.a.)
Semipalatinskaya Oblast	110	156	177	182	188	60.9	41.8	13.5	2.8	3.3
Semipalatinsk	110	156	177	182	188	60.9	41.8	13.5	2.8	3.3
Yuzhno-Kazakhstanskaya Kray	74	153	171	178	185	131.1	106.8	11.8	4.1	3.9
Chimkent	74	153	171	178	185	131.1	106.8	11.8	4.1	3.9
Vostochno-Kazakhstanskaya Oblast	20	150	173	181	195	765.0	650.0	15.3	4.6	7.7
Ust'-Kamenogorsk	20	150	173	181	195	765.0	650.0	15.3	4.6	7.7
Zapadno-Kazakhstanskaya Kray	67	104	111	109	111	65.7	55.2	6.7	-1.8	1.8
Uralsk	67	104	111	109	111	65.7	55.2	6.7	-1.8	1.8
Georgia S.S.R.	597	823	861	884	(n.a.)	44.2	37.9	4.6	2.7	(n.a.)
Kutaisi	78	128	137	141	(n.a.)	75.6	64.1	7.0	2.9	(n.a.)
Tbilisi	519	695	724	743	(n.a.)	39.5	33.9	4.2	2.6	3.4
Azerbaijdzhan S.S.R.	874	1,087	1,161	1,193	(n.a.)	32.8	24.4	8.6	2.8	(n.a.)
Baku	775	971	1,088	1,087	1,086	33.9	25.3	6.9	2.8	1.8
Kirovabad	90	116	124	126	(n.a.)	24.2	17.2	6.0	1.6	(n.a.)
Lithuanian S.S.R.	3,367	3,540	3,587	616	(n.a.)	332.7	322.6	8.7	4.9	(n.a.)
Karmas	(3)	152	214	232	247	(n.a.)	52.6	40.8	8.4	6.5
Klaypeda	(3)	90	100	105	(n.a.)	(3)	(3)	11.1	5.0	(n.a.)

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	21.5	236	255	264	271	18.6	9.8	8.1 ¹	3.5	2.7
Vil'nyus	112	216	236	244	234	110.7	92.9	9.3	3.4	4.1
Moldavian S.S.R.	112	216	236	244	234	110.7	92.9	9.3	3.4	4.1
Kishinev	348	580	607	620	632	74.4	66.7	4.7	2.1	1.9
Latvian S.S.R.	348	580	607	620	632	74.4	66.7	4.7	2.1	1.9
Riga	93	220	252	312	326	171.0	136.6	14.5	23.8	4.5
Kirgiz S.S.R.	93	220	252	312	326	171.0	136.6	14.5	23.8	4.5
Frunze	83	224	248	260	276	198.8	169.9	10.7	4.8	6.2
Tadzhik S.S.R.	83	224	248	260	276	198.8	169.9	10.7	4.8	6.2
Dushanbe	272	617	671	700	(n.a.)	146.7	126.8	8.8	4.3	(n.a.)
Armenian S.S.R.	204	509	558	583	578	173.5	149.5	9.6	4.5	-1.9
Yerevan	68	108	113	117	(n.a.)	66.2	58.8	4.6	3.5	(n.a.)
Lemnakan	127	170	187	197	207	47.2	33.9	10.0	5.3	5.1
Turkmen S.S.R.	127	170	187	197	207	47.2	33.9	10.0	5.3	5.1
Astkhakhabad	160	282	298	305	311	86.3	76.3	5.7	2.3	2.0
Estonian S.S.R.	160	282	298	305	311	86.3	76.3	5.7	2.3	2.0
Talin										

Source: Based on data reported in Tsentral'naya statisticheskaya upravleniye pri svere ministrov SSSR, *Narodnoe khozyaistvo SSSR v 1959 godu, statisticheskiy zvezdodol'nik* (The National Economy of the U.S.S.R. in 1959, A Statistical Yearbook.) Moscow, Gosstatistizdat, 1961, pp. 52-56; *Narodnoye khozyaistvo SSSR v 1961 godu, statisticheskiy zvezdodol'nik* (The National Economy of the U.S.S.R. in 1961, A Statistical Yearbook), Moscow, Gosstatistizdat, 1962, pp. 20-26; and *Narodnoye khozyaistvo SSSR v 1962 godu, statisticheskiy zvezdodol'nik* (The National Economy of the U.S.S.R. in 1962, A Statistical Yearbook), Moscow, Gosstatistizdat, 1963, pp. 25-27.

¹ Angarsk was established in 1951.

² Because most of the prewar population of Kaliningrad (formerly Königsberg) has apparently been expelled and replaced by Russians, no figure for 1959 is shown.

³ Because much of the prewar population of Klaipeda (formerly Memel) has apparently been expelled and replaced by Russians, no figure for 1959 is shown. The percent change between 1939 and 1959 and between 1939 and 1951 for Lithuanian S.S.R. excludes Klaipeda.

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SECTION II
AGRICULTURE

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TABLE II-1.—*Agricultural resources*

Item	Year	Unit	United States	Soviet Union	U.S.S.R. as per- cent of United States
Population.....	July 1, 1962..	Million.....	189.3	224.8	119
Civilian labor force (work experience).....	1962.....	do.....	¹ 82.0	² 115.0	152
Annual average employment.....	1962.....	do.....	³ 67.8	⁴ 99.4	146
Agricultural labor force (work experience).....	1962.....	do.....	⁵ 7.2	⁶ 47.0	653
Annual average employment in agriculture ⁴	1962.....	do.....	5.2	36.7	706
Percent farm of total labor force (work experience).....	1962.....	Percent.....	8.2	40.8	-----
Percent farm employment of total (annual average).....	1962.....	do.....	7.0	37.0	-----
Sown cropland.....	1963.....	Million acres.....	7 309	⁸ 639	174
Sown cropland per capita.....	1963.....	Acre.....	1.6	2.4	150
Tractors on farms.....	Jan. 1, 1963.	Thousand.....	⁹ 5,170	¹⁰ 1,329	26
Motortrucks on farms.....	do.....	do.....	⁹ 2,900	⁹ 875	30
Grain combines on farms.....	do.....	do.....	⁹ 1,020	⁹ 520	51
Agricultural consumption of electricity ¹¹	1960.....	Billion kilowatt-hours.....	31.7	9	28
Primary commercial fertilizer consumption in terms of available plant nutrients.....					
Total.....	1962.....	1,000 short tons.....	¹⁰ 8,400	¹⁰ 3,360	40
Per acre of sown area.....	1962.....	Pound.....	56	13	23

¹ Work experience includes all persons who worked 1 hour or more during the year according to the Bureau of Labor Statistics.

² U.S. Department of Agriculture (USDA) estimate based on Soviet census of 1959.

³ "Statistical Abstract of the United States, 1963" (household survey estimates of the Bureau of Labor Statistics), p. 223.

⁴ Estimate of the U.S. Census Bureau. For methodology and comparability see "Employment in the U.S.S.R.: Comparative U.S.S.R.-United States Data," by M. Weitzman, M. Feshbach, and L. Kulchycka in "Dimensions of Soviet Economic Power," Joint Economic Committee, Congress of the United States, December 1962, p. 649.

⁵ Persons who worked more than 1 hour during the year.

⁶ Based on Soviet census of 1959, persons employed in agriculture including persons working on their own private plots.

⁷ "Crop Production, 1963 Annual Summary," Statistical Reporting Service, U.S. Department of Agriculture, p. 6. [Acreage of 59 major crops planted or grown.]

⁸ Pravda, July 20, 1963 (midyear plan fulfillment).

⁹ "Changes in Farm Production and Efficiency, a Summary Report," 1963, Statistical Bulletin No. 233, U.S. Department of Agriculture.

¹⁰ "Narodnoe khozyaistvo SSSR v 1962 godu," Moscow 1963.

¹¹ ERS-Foreign-53, Economic Research Service, U.S. Department of Agriculture, 1963.

TABLE II-2.—*Farm numbers and size*

Farm numbers, 1962:			
All U.S. farms ¹			3,688,000
Soviet collective farms ²			39,700
Soviet state farms ²			8,570
Farm size, average in 1962:		Acres	
Land area per U.S. farm ³			316
Sown area per U.S. farm.....			82
Land area per Soviet collective farm ²			15,404
Sown area per Soviet collective farm ²			7,010
Land area per Soviet state farm ²			77,588
Sown area per Soviet state farm ²			24,991
		Number	
Workers per U.S. farm.....			1.5
Households per Soviet collective farm ²			404
Workers per Soviet state farm ²			804

¹ "Farm Income Situation," FIS-191, Economic Research Service, USDA, July 1963, p. 42, and "Number of Farms and Land in Farms," USDA Statistical Reporting Service, Feb. 23, 1962. In 1959 slightly more than half of all U.S. farms had sales of over \$2,500. Farms with sales of \$2,500 or more accounted for about 94 percent of all farm sales.

² "Narodnoe khozyaistvo SSSR, 1962." Does not include private plots of individuals which account for about 3-4 percent of sown area and a much larger percentage of livestock. These plots account for about $\frac{1}{3}$ of total agricultural production.

³ Land area for U.S. farms with sales of more than \$2,500 was slightly above 400 acres in 1959.

TABLE II-3.—*Crop acreage, 1962*

Crop	United States ¹	Soviet Union ²	U.S.S.R. as percent of United States
	<i>Thousand acres</i>	<i>Thousand acres</i>	
Corn for grain.....	56,609	17,297	31
Wheat.....	43,541	166,545	383
Rye.....	1,987	41,760	2,102
Oats.....	22,675	17,049	75
Barley.....	12,430	35,335	284
Grain sorghum.....	11,536	(3)	
Rice.....	1,773	247	13
Cotton, lint.....	15,569	5,906	38
Soybeans for beans.....	27,604	1,984	7
Sunflowers.....	(3)	10,848	
Peanuts, picked and threshed.....	1,412	(3)	
Flaxseed.....	2,808	4,200	150
Hemp.....	(3)	730	
Sugarbeets.....	1,103	7,833	710
Sugarcane, for sugar and seed.....	512	(3)	
Tobacco.....	1,225	4,255	21
Makhorka.....	(3)	*54	
Potatoes.....	1,376	21,498	1,562
Sweetpotatoes.....	224	(3)	
Vegetables ³	3,449	3,563	103
Fruits and berries, including citrus ⁴	2,639	3,259	123
Citrus.....	853	(3)	
Tea.....	(3)	1,628	
Hay, all.....	67,646	(3)	

¹ USDA: "Crop Production, 1963 Annual Summary" (area harvested).² Official Soviet data: "Narodnoe khozyaistvo S.S.R., 1962" (reported as sown area but actually closer to U.S. area harvested concept due to exclusion of winterkill and other crops written off).³ Not available.⁴ USDA estimate.⁵ United States: Commercial acreage only; U.S.S.R.: Excluding area sown for seed.⁶ United States: Excludes berries.TABLE II-4.—*Yields per acre of major crops, 1962*

Crop	Unit per acre	United States ¹	Soviet Union ²	U.S.S.R. as percent of United States
Corn for grain.....	Bushel.....	64.2	22.3	35
Wheat.....	do.....	25.1	12.0	48
Rye.....	do.....	20.5	12.9	63
Oats.....	do.....	45.0	22.9	51
Barley.....	do.....	35.1	20.4	58
Grain sorghum.....	do.....	44.2	(3)	
Rice.....	Pound.....	3,726.0	2,412.0	65
Cotton, lint ⁴	do.....	457.0	545.0	119
Soybeans for grain.....	Bushel.....	24.2	6.4	26
Sunflower seeds.....	Pound.....	(3)	894.0	
Flaxseed.....	Bushel.....	11.5	4.0	35
Sugarbeets.....	Ton.....	16.5	6.6	40
Tobacco.....	Pound.....	1,890.0	882.0	47
Makhorka.....	do.....	(3)	1,222.0	
Potatoes.....	Hundredweight.....	193.8	63.5	33

¹ "Crop Production 1963 Annual Summary."² Calculated from tables II-3 and II-5.³ Not available.⁴ All U.S.S.R. cotton irrigated, only 25 to 30 percent U.S. cotton irrigated.

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TABLE II-5.—*Crop production, 1962*

Crop	Unit	United States ¹	Soviet Union ²	U.S.S.R. as percent of United States
Corn for grain.....	1,000 bushels.....	3,636,673	³ 355,806	11
Wheat.....	do.....	1,093,667	³ 2,000,000	183
Rye.....	do.....	40,803	³ 539,971	1,323
Oats.....	do.....	1,020,371	³ 385,806	38
Barley.....	do.....	436,448	³ 719,891	165
Grain sorghum.....	do.....	509,656	(⁴)	-----
Rice, rough.....	1,000 tons.....	3,302	298	9
Cotton, ginned.....	1,000 bales.....	14,867	6,715	45
Soybeans for beans.....	1,000 bushels.....	609,211	³ 12,566	2
Sunflower seed.....	1,000 tons.....	(⁴)	³ 4,850	-----
Peanuts, picked and threshed.....	do.....	905	(⁴)	-----
Flaxseed.....	1,000 bushels.....	32,230	³ 16,800	52
Sugarbeets.....	1,000 tons.....	18,254	⁵ 52,029	285
Sugarcane, for sugar and seed.....	do.....	20,037	(⁴)	-----
Sugar production ⁶	do.....	5,572	6,600	118
Tobacco.....	1,000 pounds.....	2,080,092	224,869	11
Makhorka.....	do.....	(⁴)	66,138	-----
Fiber flax.....	1,000 tons.....	(⁴)	435	-----
Potatoes.....	1,000 hundredweight.....	266,703	³ 1,384,647	511
Sweetpotatoes.....	do.....	19,382	(⁴)	-----
Vegetables.....	1,000 tons.....	⁷ 20,075	17,687	87
Citrus.....	do.....	6,478	(⁴)	-----
Grapes.....	do.....	3,239	3,276	-----
Total fruits (including citrus, grapes, and berries).....	do.....	⁸ 16,646	6,690	40
Tree nuts.....	do.....	205	(⁴)	-----
Tea.....	do.....	(⁴)	188	-----
Hay, all.....	do.....	121,566	⁹ 85,097	70

¹ "Crop Production 1963 Annual Summary."

² "Narodnoe khozyaistvo SSSR, 1962" unless otherwise noted.

³ USDA estimates.

⁴ Not available.

⁵ For factory sugar production only.

⁶ For United States includes continental beet and cane and Hawaii, Puerto Rico, and U.S. Virgin Islands. For U.S.S.R. includes sugar produced from domestic beets only.

⁷ U.S. commercial vegetable production only.

⁸ For United States includes 20 major fruits exclusive of most berries.

⁹ Hay and green feed calculated in terms of hay, including natural hay harvested by individual farmers.

TABLE II-6.—*Livestock numbers, 1962¹*

Kind	United States ²	Soviet Union ³	U.S.S.R. as percent of United States
All cattle.....	103,7	87,0	84
Cows ⁴	⁵ 18,7	⁶ 38,0	203
Hogs.....	58,7	70,0	119
Sheep.....	30,2	⁷ 139,7	463
Horses.....	7,3,1	9,1	294
Poultry.....	⁸ 371,8	⁹ 550,4	148

¹ Beginning of year.

² "Livestock and Poultry Inventory," USDA Statistical Reporting Service, Feb. 13, 1963.

³ Official Soviet figure: "Narodnoe khozyaistvo SSSR, 1962."

⁴ Included in all cattle.

⁵ 2 years old and for milk.

⁶ All cows.

⁷ 1961. USDA horse estimates discontinued after 1961.

⁸ Chickens and turkeys only.

⁹ All poultry.

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TABLE II-7.—*Production of livestock commodities, 1962*

Commodity	Unit	United States ¹	Soviet Union ²	U.S.S.R. as percent of United States
Beef and veal.....	Million pounds.....	16,311	³ 6,184.0	38
Pork.....	do.....	11,841	³ 6,614.0	56
Mutton, lamb, and goat.....	do.....	809	³ 1,940.0	240
Poultry meat.....	do.....	6,938	³ 1,760.0	25
Lard.....	do.....	2,480	³ 1,240.0	-----
Margarine and shortening.....	do.....	4,158	1,201.0	-----
Tallow and grease.....	do.....	4,029	³ 445.0	-----
Milk (cows).....	do.....	125,927	³ 120,371.0	96
Butter.....	do.....	1,576	2,072.0	131
Eggs.....	Billion.....	63	30.1	48
Wool.....	Million pounds.....	249	371.0	149

¹ USDA figures.

² Unless otherwise noted, "Narodnoe khozyaistvo SSSR, 1962."

³ USDA estimates.

TABLE II-8.—*Production, sown area, and yields of major grains, international trade in grains, and selected livestock numbers, average 1955-59 and 1963*

	Unit	Average 1955-59			1963		
		United States ¹	Soviet Union ²	U.S.S.R. as percent of United States	United States ³	Soviet Union ²	U.S.S.R. as percent of United States
Production:							
Wheat.....	Million bushels.....	1,095	1,910	174	1,138	1,470	129
Rye.....	do.....	27	599	2,214	29	472	1,602
Barley.....	do.....	424	441	104	400	680	170
Oats.....	do.....	1,278	828	65	981	261	27
Corn for grain.....	do.....	3,597	207	8	4,081	386	9
Sown area:⁴							
Wheat.....	Thousand acres.....	49,128	158,722	323	45,256	163,086	360
Rye.....	do.....	1,729	44,742	2,588	1,611	44,972	2,791
Barley.....	do.....	14,391	24,869	172	11,538	45,714	396
Oats.....	do.....	33,083	36,109	109	21,757	14,826	68
Corn.....	do.....	76,121	11,853	15	60,654	17,297	29
Yields:							
Wheat.....	Bushels per acre.....	19.5	12.0	62	25.1	9.0	36
Rye.....	do.....	22.3	13.4	60	18.3	10.5	57
Barley.....	do.....	29.5	17.8	60	34.7	14.9	43
Oats.....	do.....	38.6	22.9	59	45.1	18.1	40
Corn.....	do.....	47.3	25.0	53	67.3	22.3	33
International trade in grain:							
Exports.....	Thousands tons.....	⁵ 19,542	⁶ 5,268	-----	⁷ 41,277	⁸ 3,000	-----
Imports.....	do.....	⁹ 1,123	⁶ 398	-----	⁷ 471	¹⁰ 11,000	-----
Livestock:							
Cattle.....	Million head.....	⁹ 94.0	¹¹ 62.9	67	¹² 106.8	¹³ 85.3	80
Pigs.....	do.....	⁹ 53.4	¹¹ 39.9	75	¹² 50.2	¹³ 40.7	69

¹ "Agricultural Statistics, 1962," USDA, 1963.

² USDA estimates, for production, area, and yields.

³ "Crop Production 1963 Annual Summary," for production, area, and yields of grains.

⁴ For the U.S. harvested area; for the Soviet Union see footnote 2, table II-3.

⁵ "U.S. Foreign Agricultural Trade by Commodities, Calendar Year 1962," USDA Economic Research Service.

⁶ "Vneshnyaya torgovlyna SSSR za 1955-59 gody," Moscow, 1961.

⁷ Preliminary estimates, Foreign Agricultural Service, U.S. Department of Agriculture, 1963-64.

⁸ USDA preliminary estimate, 1963-64.

⁹ "Agricultural Statistics, 1962," U.S. Department of Agriculture.

¹⁰ Approximate amount of known Soviet import commitments as of Jan. 20, 1964.

¹¹ "Narodnoe khozyaistvo SSSR," 1962.

¹² Preliminary estimates, Economic Research Service, U.S. Department of Agriculture, 1963-64.

¹³ Pravda, Jan. 24, 1964. The sharp decline in pig numbers during 1963 is claimed to have resulted from the crop failure during 1963. Pig numbers on Jan. 1, 1963, were claimed to be 70,000,000 (see table II-6).

TABLE II-9.—*Net agricultural production index, U.S.S.R.*

[1955=100]

1955.....	100	1960.....	124
1958.....	126	1961.....	134
1959.....	121	1962.....	128

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SECTION III
INDUSTRY

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TABLE III-1.—U.S.S.R.: Selected economic indicators 1958, 1962, and 1965 plan

Commodity	Unit	1958	1962	Original plan, 1965	Revised plan, 1965 ¹	Percent	
						Average annual increase, 1959-62	Required annual increase, 1963-65 ²
Primary energy ³	Million M/T/SF ⁴	616.4	779.8	1,016	8952.8	6.1	6.9
Electric power	Billion kilowatt-hours	235.4	309.3	500-520	508	11.9	11.2
Crude oil	Million metric tons	113.2	180.2	230-240	240	13.3	8.8
Natural gas	Million cubic meters	28.1	73.5	148.3	128	27.2	20.3
Pig iron	Million metric tons	39.6	55.3	65-70	65.7	8.7	5.9
Crude steel	do	54.9	73.3	86-91	89.3	8.6	5.4
Cement	do	33.8	57.3	76-81	71-72	14.5	7.4-7.9
Mineral fertilizers ⁵	do	12.4	17.3	35	Same	8.7	26.5
Artificial and synthetic fibers	Thousand metric tons	106	277	666	444	13.7	17.0
Textiles ⁶	Million square meters	5.82	6.65	8.26	Same	3.4	7.5
Leather footwear	Million pairs	356.4	456.3	515	Same	6.4	4.1
Chemical industry	Index (1958=100)	100	161	300	(*)	12.6	23.0
Gross industrial production ⁷	Index (1958=100)	100	145	180	186	9.7	8.7

¹ Unless otherwise indicated, revisions of plan are as of December 1963.² Based on the revised plan data for 1965 when available.³ Primary energy expressed in terms of standard fuel. Including coal, crude oil, natural gas, peat, shale, and firewood, but excludes hydroelectric power.⁴ Million metric tons of standard fuel.⁵ Unofficial revision.⁶ In standard Soviet units.⁷ Including cotton, wool, linen, and silk.⁸ Although a new and apparently lower goal has been set for 1965, the coverage of the industry may be smaller than that contemplated under the original plan.⁹ Gross value of production of industry at constant prices.

TABLE III-2.—Production of major chemicals in the U.S.S.R., 1955 and 1958-62, and in the United States, 1962

Commodity	Unit	U.S.S.R.						United States, 1962
		1955	1958	1959	1960	1961	1962	
Sulfuric acid (100 percent)	Thousand metric tons	3,798	4,803	5,082	5,398	5,728	6,132	17,555
Soda ash (95 percent)	do	1,437	1,692	1,728	1,887	2,115	2,332	4,399
Caustic soda (92 percent)	do	563	700	757	765	807	961	5,388
Mineral fertilizers ¹	do	9,660	12,420	12,917	13,867	15,315	17,282	236,500
Plastics	do	181	200	294	332	408	475	3,347
Rubber tires	Thousands units	10,100	14,305	15,480	17,225	18,996	20,846	137,641
Chemical fiber	Thousands metric tons	110	166	180	211	250	277	1,017

¹ In standard Soviet units.² Estimated.

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TABLE III-3.—*Production of consumer goods in the U.S.S.R., 1955 and 1958-62, and in the United States, 1962*¹

Commodity	Unit	U.S.S.R.						United States, 1962 (preliminary)
		1955	1958	1959	1960	1961	1962	
Fabrics:								
Cotton	Million square meters.	4,227	4,308	4,615	4,838	4,875	4,914	9,074
Wool	do	316	385	415	438	454	469	434
Rayon, synthetic, and silk.	do	415	690	663	675	682	787	3,044
Linen	do	272	440	485	516	493	485	(2) 3,619
Leather footwear	Million pairs	271	356	390	419	443	456	
Sewn garments	Million rubles (in wholesale prices).	(4)	7,346	8,108	8,739	9,328	9,688	(4)
Knit outerwear	Million pieces	85	97	104	112	118	125	204
Knit underwear	do	346	399	439	472	488	519	(4) 2,070
Hosiery	Million pairs	772	888	926	964	1,000	1,033	
Sewing machines	Thousands	1,611	2,686	2,941	3,096	3,292	3,341	(4) 3,775
Refrigerators	do	151	360	426	530	686	838	
Washing machines	do	87	464	648	896	1,286	1,797	(4) 3,795
Radios	do	3,549	3,902	4,035	4,165	4,228	4,251	5 6 19,200
Television sets	do	495	979	1,277	1,726	1,949	2,168	5 6 485

¹ Statistical Abstract of the United States, 1963. Official Soviet sources (U.S.S.R.), Central Statistical Administration, "Narodnoye khozyaystvo v 1962 godu," Moscow, 1963; and "Narodnoye khozyaystvo v 1960 godu," Moscow, 1961.

² Negligible.

³ Includes slippers—excludes rubber footwear and sneakers.

⁴ Not available.

⁵ Figures are for total retail sales.

⁶ Including approximately 6,000,000 auto radios.

TABLE III-4.—*Production of selected metals in the U.S.S.R., 1955 and 1958-62, and in the United States, 1962*

[In thousands of metric tons]

Commodity	U.S.S.R.						United States, 1962
	1955	1958	1959	1960	1961	1962	
Crude steel	45,271	54,920	59,971	65,293	70,755	76,306	89,183
Aluminum (primary)	430	510	600	700	800	900	1,921
Copper (refined)	377	406	450	490	530	500	1,726
Lead (primary)	258	288	294	314	326	346	341
Tin (primary)	13	16	17	18	19	20	5
Zinc (primary)	222	315	344	364	377	403	798

TABLE III-5.—*Production of selected fuels in the U.S.S.R., 1955 and 1958-62, and in the United States, 1962*

Commodity	Unit of measure	U.S.S.R.						United States, 1962
		1955	1958	1959	1960	1961	1962	
Coal	Million metric tons.	391.3	496.1	506.6	513.2	510.5	517.4	399.1
Crude oil	do	70.8	113.2	129.6	147.9	166.1	180.2	361.7
Natural gas	Billion cubic meters.	9.0	28.1	35.4	45.3	59.0	73.5	384.5

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 ANNUAL ECONOMIC INDICATORS FOR THE U.S.S.R.

TABLE III-6.—U.S.S.R.: Indexes of per capita consumption, 1955 and 1958-62
 [1955=100]

	1955	1958	1959	1960	1961	1962
Total consumption ¹	100	112.4	118.2	120.7	122.5	126.6
Personal consumption ²	100	113.0	118.9	121.2	122.4	126.6

¹ Indexes of per capita total consumption are derived from estimates of consumption of food products, nonfood goods, and services weighted 61.4 percent, 23.3 percent, and 15.3 percent, respectively.

² Indexes of total consumption less health and education services.

TABLE III-7.—U.S.S.R.: Indexes of civilian industrial production in the U.S.S.R., 1955 and 1958-62

	1955 value- added weights (percent)	1955=100					
		1955	1958	1959	1960	1961	1962
Industrial materials	52.3	100	131.8	144.9	153.9	162.3	173.3
Electric power	3.3	100	138.6	155.7	171.8	192.6	217.3
Coal	9.3	100	127.2	130.5	132.8	132.7	135.1
Petroleum products and natural gas	2.4	100	161.4	184.8	210.5	236.4	268.2
Ferrous metals	6.0	100	122.0	133.1	144.2	156.4	167.9
Nonferrous metals	4.8	100	117.7	129.2	142.0	154.0	168.5
Forest products	14.2	100	116.0	124.6	119.2	114.8	115.5
Paper products	.8	100	125.1	130.7	136.5	144.6	154.7
Construction materials	0.8	100	169.3	199.5	229.6	253.6	275.7
Chemicals	4.7	100	142.5	160.9	176.3	191.2	209.8
Civilian machinery, including electronics	22.2	100	148.8	159.4	172.5	191.8	211.5
Machinery, excluding electronics	19.5	100	143.7	151.7	162.0	175.5	190.6
Electronics	2.7	100	185.3	214.7	247.7	308.3	360.6
Nondurable consumer goods	25.5	100	124.3	135.5	139.3	146.1	152.6
Soft goods	16.2	100	123.0	131.3	139.0	143.4	149.3
Processed foods	9.3	100	126.5	137.2	139.9	150.7	158.5
Aggregate civilian industrial production	100.0	100	133.7	145.2	154.3	164.7	176.5

NOTE.—For methodology, see "Dimensions of Soviet Economic Power," pp. 110-136.

TABLE III-8.—U.S.S.R.: Annual rates of growth in industrial production, 1959-62

	Percent			
	1959	1960	1961	1962
Industrial materials	9.9	6.2	5.5	6.8
Electric power	12.3	10.3	12.1	12.8
Coal	2.6	1.8	-0.1	1.8
Petroleum products and natural gas	14.5	13.9	12.3	13.5
Ferrous metals	9.1	8.3	8.5	7.4
Nonferrous metals	9.8	0.9	8.4	9.4
Forest products	7.4	-4.3	-3.7	.6
Paper products	4.5	4.4	5.9	7.0
Construction materials	17.8	15.1	10.5	8.7
Chemicals	12.9	9.6	8.5	9.7
Civilian machinery, including electronics	7.1	8.2	11.2	10.3
Machinery, excluding electronics	5.6	0.8	8.3	8.6
Electronics	15.9	15.4	24.5	17.0
Nondurable consumer goods	7.4	4.3	4.9	4.4
Soft goods	0.7	5.9	3.2	4.1
Processed foods	8.4	2.0	7.7	5.2
Aggregate civilian industrial production	8.6	6.3	6.7	7.2

NOTE.—For methodology, see "Dimensions of Soviet Economic Power," pp. 119-136.

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SECTION IV
INVESTMENT

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TABLE IV-1.—U.S.S.R.: *New fixed investment, by function, 1955 and 1958-62*
[In millions of rubles¹]

	1955	1958	1959	1960	1961	1962
Total investment.....	19,931	30,012	33,986	36,705	38,271	40,150
Construction.....	12,832	19,348	22,313	24,245	24,533	24,827
Equipment.....	5,463	8,009	9,338	9,904	11,172	12,239
Other capital outlays.....	1,636	2,055	2,335	2,406	2,566	3,084
Productive investment.....	13,599	18,210	20,771	22,631	23,938	25,811
Of which:						
Construction.....	7,418	9,283	10,812	12,127	12,808	13,812
Equipment.....	4,719	7,499	8,059	8,440	8,736	9,046
Nonproductive investment.....	6,332	11,802	13,215	14,074	14,333	14,339
By function:						
Of which:						
Construction.....	5,414	10,005	11,501	12,118	11,725	11,015
Equipment.....	744	1,110	1,279	1,654	2,436	2,593
By use:						
Housing.....	3,799	7,536	8,319	8,275	7,870	7,720
Other.....	2,533	4,266	4,896	5,799	6,454	6,610

¹ Expressed in terms of new rubles at 1955 prices.

Source: Based on official statistical yearbooks of the U.S.S.R.

TABLE IV-2.—U.S.S.R.: *Index of growth of new fixed investment, by function, 1955 and 1958-62*

[1955=100]

	1955	1958	1959	1960	1961	1962
Total investment.....	100	151	171	184	192	201
Construction.....	100	151	174	189	191	193
Equipment.....	100	158	171	183	205	224
Other capital outlays.....	100	126	143	151	157	189
Productive investment.....	100	134	153	166	176	190
Of which:						
Construction.....	100	125	146	163	173	186
Equipment.....	100	159	171	179	185	204
Nonproductive investment.....	100	186	209	222	226	226
By function:						
Of which:						
Construction.....	100	186	212	224	217	203
Equipment.....	100	149	172	200	327	349
By use:						
Housing.....	100	198	219	218	207	203
Other.....	100	168	193	229	255	261

TABLE IV-3.—U.S.S.R.: *Annual rates of growth of new fixed investment, by function, 1958-62*

[In percent]

	1958	1959	1960	1961	1962
Total investment.....	16.2	13.2	8.0	4.3	4.9
Construction.....	17.3	15.3	8.7	1.2	1.2
Equipment.....	15.6	8.5	7.0	11.8	9.6
Other capital outlays.....	8.9	13.6	5.6	4.1	20.2
Productive investment.....	13.3	14.1	9.0	5.8	7.8
Of which:					
Construction.....	17.0	16.5	12.2	5.6	7.8
Equipment.....	12.3	7.6	4.7	3.5	10.4
Nonproductive investment.....	21.0	12.0	6.5	1.8	(1)
By function:					
Of which:					
Construction.....	17.5	14.3	5.4	-3.2	-6.1
Equipment.....	44.0	15.2	21.5	56.8	6.4
By use:					
Housing.....	21.3	10.4	-5	-4.8	-1.9
Other.....	20.5	14.8	18.4	11.3	2.4

¹ Negligible.

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TABLE IV-4.—U.S.S.R.: *New fixed productive investment, by sector, 1955 and 1958-62*

[In millions of rubles ¹]

	1955	1958	1959	1960	1961	1962
Productive investment, all sectors.....	13,599	18,210	20,771	22,631	23,938	25,811
Industry, total.....	8,249	11,231	12,978	14,323	14,935	15,763
Ferrous metallurgy.....	586	871	1,089	1,219	1,327	² 1,360
Chemicals ³	278	447	698	915	1,070	² 1,174
Fuels and power.....	2,979	3,870	4,028	4,213	4,397	² 4,640
Machine building.....	1,139	1,251	1,484	1,756	1,991	² 2,160
Construction materials and construction.....	823	1,446	1,739	2,004	2,092	² 1,960
Consumer goods.....	903	1,476	1,756	1,962	1,771	² 1,845
Others.....	1,541	1,870	2,184	2,264	2,287	² 2,644
Agriculture.....	3,804	4,741	5,071	5,192	5,723	6,415
Transport and communications.....	1,546	2,238	2,722	3,116	3,280	3,633

¹ Expressed in terms of new rubles at 1955 prices.

² Estimated.

³ Data for 1958-62 are from a revised Soviet investment series published in *Vestnik statistiki*, No. 1, 1964, p. 94. This series, which represents a revision upward as compared with the previously published series, may reflect a change in the Soviet classification of the chemical industry. The new data are believed to be inclusive of oil, or virtually all, investment in the chemical industry (the element of uncertainty is due to the possible exclusion from the revised series of small amounts of investment expenditures from "noncentralized" sources).

TABLE IV-5.—U.S.S.R.: *Index of growth of new fixed productive investment, by sector, 1955 and 1958-62*

[1955=100]

	1955	1958	1959	1960	1961	1962
Productive investment, all sectors.....	100	134	153	166	176	190
Industry, total.....	100	136	157	174	181	191
Ferrous metallurgy.....	100	149	188	208	226	¹ 232
Chemicals.....	100	161	251	329	385	¹ 422
Fuels and power.....	100	130	135	141	148	¹ 156
Machine building.....	100	110	130	154	175	¹ 189
Construction materials and construction.....	100	176	211	243	254	¹ 237
Consumer goods.....	100	163	194	217	196	204
Others.....	100	121	142	146	148	¹ 172
Agriculture.....	100	125	133	136	150	169
Transport and communications.....	100	145	170	202	212	236

¹ Estimated.

TABLE IV-6.—U.S.S.R.: *Annual rates of growth of new fixed productive investment, by sector, 1958-62*

[In percent]

	1958	1959	1960	1961	1962
Productive investment, all sectors.....	13.3	14.1	9.0	5.8	7.8
Industry, total.....	13.0	15.6	10.4	4.3	5.5
Ferrous metallurgy.....	35.9	25.0	11.9	8.9	¹ 2.5
Chemicals.....	61.0	56.1	31.1	16.9	¹ 0.7
Fuels and power.....	9.0	4.1	4.6	4.4	¹ 5.5
Machine building.....	2.1	18.6	18.3	13.4	¹ 8.0
Construction materials and construction.....	15.3	20.3	15.2	4.4	¹ -6.8
Consumer goods.....	22.2	19.0	11.9	-9.7	4.2
Others.....	6.0	16.8	3.2	1.5	¹ 15.6
Agriculture.....	12.8	7.0	2.4	10.2	12.1
Transport and communications.....	15.8	21.6	14.5	5.3	10.8

¹ Estimated.

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SECTION V
EMPLOYMENT AND WAGES

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Part A.—Employment

TABLE V-A-1.—*Population of the U.S.S.R. by socioeconomic category, sex, and age group: Jan. 15, 1959*

[Figures for all ages in thousands. Figures in parentheses are estimated. Leaders indicate negligible or nonexistent. Figures are independently rounded and may not add to totals.]

Socioeconomic category	Total				Male				Female			
	All ages ¹	Under-aged	Able-bodied	Over-aged ²	All ages ¹	Under-aged ²	Able-bodied*	Over-aged*	All ages ¹	Under-aged ²	Able-bodied*	Over-aged*
Total population.....	208,827	163,496	1119,822	125,501	94,450	232,331	3 (55,079)	16,640	114,776	31,165	3 (64,751)	118,861
Total labor force.....	108,985	3 (496)	4 (97,793)	3 (10,706)	52,440	3 (253)	3 (48,699)	3 (3,483)	56,555	3 (238)	3 (49,094)	3 (7,223)
Armed Forces.....	3,623	1,3	623	1,3	3,622	3 (258)	1,3	622	1	3 (238)	3 (49,093)	1,1
Civilian labor force.....	105,372	3 (496)	3 (94,170)	3 (10,706)	48,817	3 (258)	3 (45,077)	3 (3,483)	56,555	3 (238)	3 (49,093)	3 (7,223)
Socialized sector.....	95,241	3 (495)	3 (88,925)	3 (5,820)	47,739	3 (258)	6 44,722	3 (2,759)	47,503	3 (237)	5 44,203	3 (3,061)
Workers and employees.....	62,961	3 (123)	3 (60,774)	3 (2,063)	33,570	3 (66)	3 (32,380)	3 (1,125)	29,391	3 (57)	3 (28,394)	3 (938)
Nonagricultural branches.....	56,350	3 (59)	8 (54,532)	1 (758)	29,072	3 (29)	3 (28,691)	3 (953)	26,678	3 (30)	3 (25,941)	3 (895)
Agricultural branches.....	6,611	3 (64)	3 (6,242)	3 (305)	3,888	3 (37)	3 (3,689)	3 (172)	2,713	5 (27)	3 (2,553)	5 (133)
Collective farmers.....	32,280	3 (372)	3 (28,151)	3 (3,757)	14,169	3 (192)	3 (12,342)	3 (1,634)	18,111	3 (180)	3 (15,909)	3 (2,123)
Nongovernmental branches.....	557	6 (537)	3 (27,375)	3 (3,757)	437	6 (437)	6 (437)	6 (437)	120	6 (120)	6 (120)	6 (120)
Agricultural branches.....	31,723	3 (372)	3 (27,375)	3 (3,757)	13,731	3 (192)	3 (11,905)	3 (1,634)	17,992	6 (180)	5 (180)	5 (180)
Private independent sector.....	266	3 (1)	3 (210)	3 (56)	165	3 (0,4)	3 (142)	3 (23)	101	3 (1)	3 (68)	3 (33)
Independent artisans.....	174	3 (160)	3 (15)	3 (4)	133	3 (123)	6 (10)	6 (10)	42	3 (37)	6 (5)	4 (28)
Individual peasants.....	92	51	3 (150)	3 (4)	32	50,4	5 (19)	5 (13)	60	3 (31)	5 (31)	5 (31)
Private agricultural subsidiary sector.....	9,865	5,065	3 (4,830)	914	.....	4 (213)	3 (701)	8,951	.....	1,4,822	3 (4,129)	1,4,822
Members of families of workers and employees.....	3 (4,165)	6 (3,357)	3 (808)	3 (651)	.....	6 (213)	6 (438)	3 (3,514)	.....	3 (3,144)	3 (370)	3 (3,144)
Members of families of collective farmers.....	7,700	6 (1,675)	3 (4,022)	3 (265)	6 (213)	6 (268)	3 (3,457)	4 (1,678)	4 (3,759)	4 (3,759)

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Population outside labor force.....	96,822	3 (53,099)	3 (22,029)	3 (14,795)	41,611	3 (32,073)	3 (6,380)	1 (3,157)	56,221	3 (30,927)	3 (15,657)	3 (11,638)
Dependents.....	82,122	3 (63,000)	1,12,880	3 (6,255)	35,007	3 (32,073)	3 (1,402)	3 (331)	50,415	3 (30,927)	1,11,465	3 (5,324)
Able-bodied students.....	3,300	1,3,300	1,1,717	3 (8,326)	943	1,943	1,943	-----	775	1,775	4 (2,200)	-----
Suspendees.....	1,717	1,4,097	3 (8,326)	5,380	81	2,825	2,825	3 (2,645)	6,843	3 (1,162)	3 (5,381)	3 (8,55)
Pensioners.....	12,423	3 (55)	3 (214)	-----	-----	-----	-----	188	-----	-----	-----	3 (133)
Other.....	269	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

*Underaged comprise both males and females 12-15 years of age. The able-bodied

age group includes males 16-59 years of age and females 16-54 years of age. The overaged group relates to males 60 years of age and over and females 55 years of age and over.

¹TsSU pri Sovetu ministrov SSSR, *Izogi rezognizuyushchego nareshenija 1939 goda, SSSP (Srednyj form) (Results of the All-Union Census of Population of 1939, U.S.S.R. [Summary Volume]),* Moscow, Gosstatzdat, 1932, tables 13, 30, 32, 33, pp. 50-51, 96-97,

²1939, 104-105, *Thenskach't i del' SSSR, Statisticheskiy zhurnal (Women and Children in the U.S.S.R., A Statistical Compilation),* Moscow, Gosstatzdat, 1961, p. 57.

³Derived either by addition or subtraction, as appropriate.

⁴A closing error of 62,000 able-bodied persons out of 97,33,000 appears at this point. The figure shown in the table is the sum of the parts both horizontally and vertically. According to the summary volume of census results (*Izogl. * * op. cit. table 32, pp. 98-99, 104-105.* The number of able-bodied persons having employment or engaged in the private subsidiary economy was 97,731,139 persons.

⁵Computed from *ibid.*, tables 39 and 35, pp. 117-122 and 104-105. Rates of employment by sex and age were applied to total employment, by sex, for corresponding branches.

⁶It was assumed that all males in the "Other" category of "Population outside labor force" were overaged.

⁷V. Rozdolovskaya, "Employment of U.S.S.R. Citizens. According to Data of the 1939 Census of Population," *Vestnik statistiki (Statistical Herald),* no. 3, March 1961,

⁶To estimate certain unreported categories, the following assumptions were made:

a. Collective farm employment in nonagricultural branches was assumed to be comprised only of able-bodied persons;

b. Employment for overaged male and female independent artisans was arbitrarily estimated at 10,000 and 5,000 persons, respectively;

c. The distribution of the total able-bodied population employed in the private subsidiary economy (6,135,000 persons) was estimated as two-thirds for the members of families of workers and employees and one-third for the members of families of collective farmers;

d. Males engaged in the private subsidiary economy was estimated as follows: All able-bodied males in this category were assumed to be members of families of workers and employees; overaged males were assumed to be allocated in the proportion of five-eighths as members of families of workers and employees, and three-eighths as members of families of collective farmers;

e. It was assumed that there were no underaged persons in the entire category of the private subsidiary economy, following the methodology prescribed for the census taking;

f. Able-bodied students in the "Population outside labor force" category were arbitrarily distributed as one-third males and two-thirds females;

g. It was assumed that all males in the "Other" category of "Population outside labor force" were overaged.

⁸Given as 5.7 million persons.

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TABLE V-A-2.—*Civilian labor force of the U.S.S.R., by socioeconomic category, branch, and sex, Jan. 15, 1959*

[Absolute figures in thousands. Figures are independently rounded and may not add to totals.]

Labor force category	Total	Males	Females	Females as a percent of total
Total civilian labor force.....	105,372	48,817	56,555	53.7
I. Socialized and private independent sector.....	95,507	47,903	47,604	49.8
A. Branches of material production.....	80,863	42,520	38,342	47.4
Industry, construction, transport, and communications ¹	36,575	22,423	14,152	38.7
Agriculture.....	38,426	17,662	20,764	54.0
Collective farmers.....	31,723	13,731	17,992	56.7
Workers and employees.....	6,611	3,898	2,713	41.0
Individual peasants.....	92	32	60	65.2
Trade, public dining, etc.....	5,171	1,993	3,178	61.5
Other branches.....	691	443	248	35.9
B. Branches of nonmaterial production.....	14,453	5,240	9,204	63.7
Education, science, public health.....	9,793	2,865	6,928	70.7
Housing, communal economy, administration, finance-credit system.....	4,660	2,385	2,275	48.8
C. Unknown.....	191	133	58	30.4
II. Private agricultural subsidiary sector.....	9,865	914	8,951	90.7

¹ The census classification of material and nonmaterial production does not differentiate between productive and nonproductive transport and communications; regular annual reports do make this distinction.

Source: TsSU pri Sovete ministrov SSSR, *Itogi vsego uchazhnoy perepisi naseleniya 1959 goda, SSSP, (Svodnyy tom) (Results of the All-Union Census of Population of 1959, U.S.S.R. [Summary Volume]),* Moscow Gosstatizdat, 1962, tables 30 and 33, pp. 96-97 and 104-105.

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TABLE V-A-3.—*Population and employment, U.S.S.R.: Selected years, 1940-65*
[In thousands. Population figures are as of July 1; employment figures are annual averages. Figures are independently rounded and may not add to totals: (n.a.) indicates data not available and no estimate made]

Population characteristic	1940	1950	1955	1956	1957	1958	1959	1960	1961	1962	1965
Total population.....	188,000	180,085	189,484	196,128	199,600	203,146	206,806	210,510	214,249	217,977	221,505
I. Population aged 12 years and over.....	139,513	138,995	147,862	150,296	150,701	151,737	153,643	155,909	158,454	161,285	164,325
Excluding population aged 12 to 15 years.....	120,126	122,508	130,227	137,022	140,082	142,791	144,641	145,877	145,760	146,777	148,845
A. Able-bodied group.....	104,049	103,448	109,444	114,740	116,896	118,880	119,613	119,418	118,872	118,971	119,596
1. Males aged 16 to 59 years.....	50,908	44,389	48,104	51,388	52,750	53,986	54,799	55,048	55,120	55,515	56,336
2. Females aged 16 to 54 years.....	53,141	50,059	61,340	63,402	64,146	64,694	64,814	64,370	63,752	63,456	64,512
B. Overaged group.....	16,077	19,060	20,753	22,282	23,186	24,111	25,028	25,569	26,888	27,806	28,749
I. Males aged 60 years and over.....	5,042	5,104	5,508	5,861	6,078	6,304	6,528	6,760	7,001	7,249	7,516
2. Females aged 55 years and over.....	11,035	13,986	15,275	16,421	17,108	17,807	18,500	19,199	19,887	20,557	21,233
C. Underaged group.....	19,387	16,437	17,685	18,274	19,619	8,946	9,032	10,582	12,694	14,508	15,530
I. Males aged 12 to 15 years.....	9,770	8,163	8,799	6,655	5,341	4,523	4,580	5,370	6,466	7,376	7,903
2. Females aged 12 to 15 years.....	9,617	8,324	8,830	6,639	5,278	4,422	4,422	5,162	6,228	7,132	7,677
II. Civilian employment.....	79,019	79,563	81,942	87,476	90,313	91,512	93,790	94,352	95,632	97,622	99,395
A. Socialized sector.....	61,292	67,695	70,860	74,950	77,437	78,648	80,805	82,409	84,332	86,561	88,300
1. Workers and employees.....	31,192	38,895	43,431	46,462	48,715	51,533	54,105	56,509	62,032	65,861	68,390
2. Members of producers' cooperatives.....	2,200	1,500	1,600	1,800	1,200	1,200	1,300	1,400	(1)	(1)	(1)
3. Members of collective farms.....	27,900	27,300	25,829	26,718	27,522	25,865	25,400	24,500	22,300	20,700	20,000
B. Nonsocialized sector.....	17,727	11,898	11,082	12,496	12,876	12,864	12,985	11,943	11,380	11,061	11,065
1. Private agricultural sector.....	17,123	11,634	10,868	12,332	12,681	12,719	12,829	11,769	11,186	10,887	10,921
(a) Workers and employees.....	2,039	2,543	2,599	3,003	3,009	3,542	3,654	3,893	4,176	4,277	(n.s.)
(b) Collective farmers.....	9,134	7,939	8,090	9,143	9,305	9,045	9,050	8,259	7,218	6,671	6,813
(c) Individual peasants.....	5,950	1,152	179	186	167	132	125	92	40	31	31
2. Independent artisans.....	604	264	214	164	195	145	156	174	174	174	174

See footnotes at end of table, p. 48.

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TABLE V-A 3.—*Population and employment, U.S.S.R.: Selected years, 1940-65—Continued*

[In thousands. Population figures are as of July 1; employment figures are annual averages. Figures are independently rounded and may not add to totals: (n.a.) indicates data not available and no estimate made.]

Population characteristic	1940	1950	1953	1955	1956	1957	1958	1959	1960	1961	1962	1963	1965
III. Other activities of persons aged 12 years and over—line 1 less line II—armed forces, domestics, day laborers, students, housewives, disabled, unemployed, etc.	60,494	59,402	65,920	62,820	60,388	60,225	59,853	61,557	62,762	63,663	64,830	(n.a.) ^a	
Excluding youths aged 12 to 15 years	41,107	42,915	48,286	49,346	49,769	51,279	50,851	51,025	50,068	49,155	49,250	(n.a.) ^a	

¹The system of producers' cooperatives was abolished in October 1960. Employment for this sector is now included in the workers and employees category.

Source: Population:
 1940: U.S. Bureau of the Census, *The Magnitude and Distribution of Civilian Employment in the U.S.S.R.: 1928-59*, by Murray S. Weitzman and Andrew Elias,

International Population Reports, Series P-55, No. 58, Washington, D.C., Foreign Demographic Analysis Division, April 1961, p. 55.
 1950-65: Estimates and projections prepared by the Foreign Demographic Analysis Division, Bureau of the Census, Employment: Table 4.

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TABLE V-A 4.—Civillian employment, by socioeconomic category, U.S.S.R.: Selected years, 1940-62

[Absolute figures are annual averages and are in thousands; (n.a.) indicates data not available and no estimate made]

Socioeconomic category	1940	1950	1953	1955	1956	1957	1958	1959	1960	1961	1962
Total ^{1,2}	79,019	79,593	81,942	87,476	90,313	91,512	93,790	94,352	95,692	97,622	99,395
I. Nonagricultural branches ^{1,2}	31,020	36,778	41,032	43,798	45,447	47,323	49,499	51,893	54,724	57,819	59,866
A. Workers and employees ¹	28,216	35,014	39,218	41,834	44,052	45,978	48,043	50,319	454,550	57,645	59,892
1. Industry ³	10,967	14,144	16,261	17,367	18,500	19,144	19,675	20,207	22,291	23,475	24,297
2. Construction ⁴	1,563	2,569	2,843	3,190	3,550	4,000	4,421	5,143	5,270	5,270	5,270
3. Transport and communications ¹	3,938	4,624	5,352	5,650	5,840	5,996	6,362	6,683	7,017	7,308	7,500
4. Trade and public dining ⁵	3,303	3,325	3,463	3,725	3,826	4,017	4,190	4,389	4,675	5,010	5,253
5. Public health and education ⁶	4,531	6,080	6,815	7,607	7,933	8,350	9,275	10,027	10,833	11,552	11,552
6. Other ⁷	3,949	4,272	4,484	4,295	4,403	4,471	4,650	4,985	5,397	5,723	5,861
B. Members of producers' cooperatives ⁸	2,206	1,500	1,600	1,800	1,200	1,200	1,300	1,400	(*)	(*)	(*)
C. Independent artisans ¹¹	1,700	1,300	1,400	1,600	1,100	1,100	1,100	1,200	(*)	(*)	(*)
II. Agriculture ^{1,2,13}	500	200	200	200	100	100	100	200	(*)	(*)	(*)
A. Workers and employees ¹	604	264	214	164	195	145	156	174	174	174	174
B. Socialized sector ¹	47,998	42,815	40,910	43,678	44,866	44,189	44,291	42,459	40,968	39,803	39,529
1. State farms, etc. ⁹	5,015	6,424	6,812	7,631	7,672	9,147	9,716	9,608	11,375	12,392	12,885
2. Machine tractor stations and repair-technical stations ¹⁰	2,976	3,881	4,213	4,628	4,663	5,605	6,062	6,190	7,482	8,216	8,608
3. Forestry ¹¹	1,760	2,425	2,552	2,832	2,925	3,961	4,614	4,957	6,324	7,366	7,730
4. Agricultural activities not specifically identified ¹²	530	678	889	1,147	1,058	989	719	466	348	3	0
5. Private sector (in conventional man-year equivalents) ¹⁴	279	444	416	389	390	377	367	352	359	378	389
6. Agricultural activities not specifically identified ¹²	407	334	356	260	290	278	362	412	451	469	459
7. Other	2,039	2,543	2,569	3,003	3,009	3,542	3,654	3,418	3,893	4,176	4,277

See footnotes at end of table, pp. 50, 51.

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TABLE V-A-4.—Civilian employment, by socioeconomic category, U.S.S.R.: Selected years, 1940-62—Continued

[Absolute figures are annual averages and are in thousands; (n.a.) indicates data not available and no estimate made.]

Socioeconomic category	1940	1950	1953	1955	1956	1957	1958	1959	1960	1961	1962
II. Agriculture—Continued											
B. Collective farmers in collective farm economy ¹	37,634	35,239	33,919	35,861	37,027	34,910	34,450	32,759	29,518	27,371	26,613
1. Socialized sector—total ¹⁵	27,000	27,300	25,829	26,718	27,522	25,865	25,490	24,500	22,300	20,700	20,000
a. Nonagricultural collective farms ¹⁶	500	500	371	526	542	585	325	399	567	377	216
b. Agricultural collective farms ¹⁷	27,400	26,800	25,458	26,188	26,980	25,280	25,075	24,101	21,733	20,323	19,784
(1) Agricultural activities ¹⁸	24,700	24,200	23,100	23,900	24,600	23,060	22,400	21,400	20,100	18,700	18,100
(2) Nonagricultural activities ¹⁹	2,700	2,600	2,400	2,300	2,400	2,300	2,700	2,700	1,600	1,600	1,700
(a) Industry (in conventional man-year equivalents) ²⁰	615	600	418	617	665	659	627	658	(n.a.)	(n.a.)	(n.a.)
(b) Construction (in conventional man-year equivalents) ²⁰	697	967	979	1,033	1,046	1,174	1,118	1,163	(n.a.)	(n.a.)	(n.a.)
2. Private sector (in conventional man-year equivalents) ¹⁴	9,184	7,938	8,090	9,143	9,505	9,045	9,050	8,259	7,288	6,671	6,613
C. Individual peasants ²¹	5,960	1,162	1,179	1,186	1,187	1,132	1,125	92	75	40	31

¹ Sum of the components.

² Excludes workers and employees hired by collective farms; the additional employment of workers and employees having more than one job in state establishments and performing tasks for private individuals: domestics, day laborers, etc.; (probably) people working full time for the Communist Party; (probably) civilians working in military establishments; and unpaid labor "volunteered" by "social" organizations, such as the Komsomol, in order to plant trees, construct barns on state farms, collect scrap metal, etc.

³ Includes workers and employees, members of producers cooperatives, and independent artisans who are engaged in economic activities other than those of agriculture and forestry. Workers and employees engaged in normally nonagricultural-type activities of sovkhozy, machine tractor stations, and other state agricultural establishments.

⁴ All collective farm members are included in agricultural employment. Employment for this sector is now included in the workers and employees category.

⁵ Table 7.

⁶ Table 7. Includes housing-communal economy, administrative organs, credit and insurance organizations, and undistributed residual.

⁷ TSSU pri Sovete ministrov SSSR, *Narodnoye khozyaystvo SSSR v 1956 godu, statisticheskiy yezhegodnik* (The National Economy of the U.S.S.R. in Pictures, 1956), p. 97.

⁸ By year:

⁹ 1940: Estimated as 2.2 percent (of total employment of 79,019,000) reported in TSSU

pri Sovete ministrov SSSR, *Narodnoye khozyaystvo SSSR v 1956 godu, statisticheskiy yezhe-*

godnik (The National Economy of the U.S.S.R. in Pictures, 1956), p. 97.

¹⁰ 1956: *Nar. khoz. v 1956, A Statistical Computation*, Moscow, Gosstatizdat, 1957, p. 202 (cited hereafter as *Nar. khoz. v 1956*). It should be noted that, 2.2 percent covers all material production branches. Industry, however, is the largest component.

¹¹ 1950: Estimated by assuming the same relationship between the total membership and that employed in industry as in 1953 (87.5 percent).

¹² 1953: S. A. Gorelik, *Statistika (Statistics)*, Part II, [Leningrad], KOGIZ, 1956, p. 97.

¹³ 1955: TSSU pri Sovete ministrov SSSR, *Narodnoye khozyaystvo SSSR, statisticheskiy yezhegodnik (The National Economy of the U.S.S.R., A Statistical Computation)*, Moscow,

Gosstatizdat, 1956, p. 44.

¹⁴ 1956: *Nar. khoz. v 1956, p. 50*. Between 1955 and 1956 a number of enterprises employing 600,000 members in the producers cooperatives system were transferred to the state sector. Of this number 500,000 were in industry.

¹⁵ 1957: Estimated. The figure of 900,000 for wage workers in industry (members of producers cooperatives) reported in TSSU pri Sovete ministrov SSSR, *SSSR v tsifrakh, statisticheskiy yezhegodnik* (The National Economy of the U.S.S.R. in Pictures, 1957), Moscow, Gosstatizdat, 1958, p. 59, was expanded by 17 percent (rounded) to cover the entire industrial-production personnel. The expansion factor was derived on the basis of the reported 1956 relationship between wage workers and total industrial-production employ-

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ment in industry of producers' cooperatives (1,000,000 and 1,200,000, respectively). *Nar. kholz* #160, pp. 216-217.
 In 1958, TSSU pri Sovete ministrov SSSR, *Narodnoye khozyaistvo SSSR v 1958 godu, statisticheskaya yezhegodnitsa (The National Economy of the U.S.S.R. in 1958, A Statistical Yearbook)*, Moscow, Gosstatizdat, 1959, p. 131.
 ———, *Narodnoye khozyaistvo SSSR v 1959 godu, statisticheskaya yezhegodnitsa (The National Economy of the U.S.S.R. in 1959, A Statistical Yearbook)*, Moscow, Gosstatizdat, 1960, p. 138.

¹⁰ 1940, 1950, 1955-58: Approximations derived as follows (in thousands):

Categories	1940	1950	1955	1956	1957	1958
Nonsocialized personnel a-----	7,604	1,619	350	362	277	281
Individual peasants (line II, C, table 4) b	7,000	1,355	186	167	132	125
Independent artisans (residual) -----	604	264	184	195	145	156

^a U.S. Bureau of the Census, *The Magnitude and Distribution of Civilian Employment in the U.S.S.R.: 1948-59*, by Murray S. Weitzman and Andrew Elias, International Population Reports, Series P-35, No. 35, Washington, D.C., Foreign Manpower Research Office, Bureau of the Census, April 1961, table 2A, p. 39 (cited hereafter as Weitzman and Elias).

^b The unadjusted value for the individual peasants (see note 21) was subtracted from the total number of nonsocialized personnel. This was done in the belief that the Soviet Union did not use an annual average measurement standard for individual peasant employment but more likely a demographic count.

1953: The average of the 1950 and 1955 estimates.

1959: Census figure from TSSU pri Sovete ministrov SSSR, "On the Distribution of the U.S.S.R. Population by Social Group, Branch of the National Economy, and Occupation, and 'On the Educational Level of Persons Performing Physical and Mental Labor,' *statistika (Statistical Herald)*, No. 12, December 1960, pp. 4-5.

1960-62: In the absence of necessary information, assumed to be the same as for 1959. Agricultural employment differs slightly in concept from nonsocialized employment in that agricultural employment, in addition to the annual average employment of persons by branch of agricultural economy, also includes a synthetic employment figure for kolhoz industry, construction, and the work performed on the private agricultural plots of collective farmers and of workers and employees and their families. The figure for employment relating to private agricultural plots is derived, mainly, on the basis of labor input requirements for the care and the cultivation of private agricultural holdings, and represents a man-year equivalent employment concept based on 280 man-days per man-year.

¹³ Table 7. In 1958, machine tractor stations were reorganized into repair-technical stations and many of the tractors and other agricultural machines were sold to collective farms.

For purposes of consistency with pre-1953 and post-1958 data, the figures for 1953-58 were adjusted to remove collective farmers transferred to the employment rolls of machine tractor stations from collective farms following the October 1953 resolutions of the Communist Party and U.S.S.R. Government. These employment adjustments totaled

223,000 for 1953, 1,918,000 for 1955, 1,822,000 for 1956, 1,565,000 for 1957, and 500,000 for 1958. The values for 1955 and 1958 are believed to be somewhat inflated but the lack of additio-

nal information does not permit further refinement. See Weitzman and Elias, p. 134. The 1953-58 estimates of collective farmers transferred to the rolls of machine tractor stations are included in this table in the estimate of annual average employment in the socialized sector of the collective farm economy. It should be noted that these adjust-

ments of Soviet data were not made in Table 7.

¹⁴ Table 9. In 1940 and 1950, sum of the components: 1953, 1955, 1956-58. *Nar. kholz*, p. 521, adjusted for the years 1953-58 for the transfers described in note 13.

1956-57: TSSU pri Sovete ministrov SSSR, *Sif'skoye khozyaistvo SSSR, statisticheskiy sbornik (Agriculture of the U.S.S.R., A Statistical Compilation)*, Moscow, Gosstatizdat, 1960, p. 450 (cited hereafter as *Sif-kholz*).

1960-62: TSSU pri Sovete ministrov SSSR, *Narodnoye khozyaistvo SSSR v 1962 godu, statisticheskaya yezhegodnitsa (The National Economy of the U.S.S.R. in 1962, A Statistical Yearbook)*, Moscow, Gosstatizdat, 1963, p. 385 (cited hereafter as *Nar. kholz*, p. 1962).

¹⁵ Consists essentially of hunting and fishing.

1940 and 1950: Weitzman and Elias, table 2, p. 57.

1953-58: Difference between total employment in the socialized sector of collective farms and that in agricultural kolkhoz.

1940 and 1950: Murray, S. Weitzman, Murray Feshbach, and Lydia Kulchycka, "Employment in the U.S.S.R.," in: Comparative U.S.S.R.-U.S. Joint Economic Committee, Congress of the United States, *Dimensions of Soviet Economic Power*, Washington, U.S. Government Printing Office, 1962, Table A3, col. (6), p. 666.

1953, 1955, 1956-58: *Nar. kholz*, p. 50; *Nar. kholz*, p. 1962, p. 522.

1956, 1957: *Sif-kholz*, p. 459.

1961-62: *Nar. kholz*, p. 1962, p. 369. See note immediately above.

1953, 1955-59: *Sif-kholz*, p. 450, adjusted for the transfers described in note 13 and for the agricultural employment in nonagricultural kolkhoz. The latter adjustment was made on the basis of the assumption that agricultural comprises only a small part of economic activities on nonagricultural collective farms, arbitrarily set at 20 percent of total employment.

1960: *Nar. kholz*, p. 1960, p. 521. See note immediately above.

¹⁶ The difference between total employment on agricultural collective farms and their agricultural employment (line II, B.I.b-II.B.I.b.(1)). Rounded.

²¹ Weitzman, Feshbach, and Kulchycka, *op. cit.*, Table A3, p. 667.

1940 and 1950: In estimating annual average employment of individual peasants for 1940 and 1950, it was assumed that their participation in peasant agriculture per household was approximately equivalent to the number of labor force participants in collective farming per collective farm household. A second assumption involved the use of a constant peak month employment factor of 85 percent, which is taken to represent the proportion of individual peasants who participated at some time during the year in individual peasant agriculture.

1959: *Nar. kholz*, p. 1960, p. 26.

1953, 1955-58, 1960-62: In estimating employment for years other than 1959, the 1959 census estimate of 92,000 was moved by the computed annual percent change in conventional man-year equivalent employment for individual peasants and other categories of population given in table 9.

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TABLE V-A-5.—*Workers and employees, by branch of the national economy,
 U.S.S.R.: Selected years, 1928-62*

[Employment figures are annual averages and are in thousands; (n.a.) indicates data not available and no estimate made]

Year	Total	Nonagri-cultural branches	Agricul-tural branches ¹	Year	Total	Nonagri-cultural branches	Agricul-tural branches ¹
1928.....	10,790	9,055	1,735	1955.....	48,380	41,834	6,546
1932.....	22,601	19,553	3,048	1956.....	50,537	44,052	6,485
1937.....	26,744	23,887	2,857	1957.....	53,148	45,978	7,170
1940.....	31,192	28,216	2,976	1958.....	54,605	48,043	6,562
1945.....	27,263	(n.a.)	(n.a.)	1959.....	56,609	50,319	6,196
1950.....	38,895	35,014	3,881	1960.....	62,032	54,550	7,482
1952.....	42,204	38,049	4,155	1961.....	66,861	57,645	8,216
1953.....	43,660	39,218	4,442	1962.....	68,300	59,692	8,608
1954.....	47,300	(n.a.)	(n.a.)				

¹ No adjustment has been made for transfers of some of the collective farmers to the rolls of machine tractor stations between 1953-58, as was done in table 4. Includes forestry.

Source: Unless otherwise indicated, tables 5 to 7 are based principally on the following:
 1928-58: U.S. Bureau of the Census, *The Magnitude and Distribution of Civilian Employment in the U.S.S.R. 1928-59*, by Murray S. Weitzman and Andrew Elias. International Population Reports, series P-95, No. 58, Washington, D.C., Foreign Manpower Research Office, Bureau of the Census, April 1961, 103 pages especially pp. 55-68.

1955-1959: TsSU pri Sovete ministrov SSSR, *Narodnoye khozyaystvo SSSR v 1960 godu, statisticheskiy yezhegodnik* (*The National Economy of the U.S.S.R. in 1960, A Statistical Yearbook*), Moscow, Gosstatizdat, 1961, pp. 216-217, 312, 626, 636-637, 708.

1960-61: ———, *Narodnoye khozyaystvo SSSR v 1961 godu, statisticheskiy yezhegodnik* (*The National Economy of the U.S.S.R. in 1961, A Statistical Yearbook*), Moscow, Gosstatizdat, 1962, pp. 181-182, 560, 567-568, 650.

1952, 1962: ———, *Narodnoye khozyaystvo SSSR v 1962 godu, statisticheskiy yezhegodnik* (*The National Economy of the U.S.S.R. in 1962, A Statistical Yearbook*), Moscow, Gosstatizdat, 1963, pp. 130, 446, 453-454, 530.

TABLE V-A-6.—Wage workers in selected branches of industry, U.S.S.R.: Selected years, 1940-62

[Employment figures are annual averages and are in thousands; (n.a.) indicates data not available and no estimate made. Figures in parentheses are estimated.]

Branch of industry	1940	1950	1952	1953	1955	1956	1957	1958	1959	1960	1961	1962
Total ¹	8,290	11,308	12,474	(13,131)	14,281	15,226	15,760	16,279	16,793	18,574	19,548	20,176
Machine-building and metalworking, including repair enterprises ¹	2,395	(n.a.)	3,581	(n.a.)	4,256	4,539	4,736	4,932	5,149	5,655	6,207	6,532
Machine-building and metalworking ²	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
Heavy machine-building ³	72,9	96,2	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	4,355	(n.a.)	(n.a.)	(n.a.)
Repair enterprises ²	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	577	(n.a.)	(n.a.)	(n.a.)
Coal ¹	436	(n.a.)	763	(n.a.)	897	908	1,021	1,071	1,074	1,081	1,005	996
Oil extraction and refining ¹	45	(n.a.)	102	(n.a.)	122	125	128	138	140	145	154	150
Oil extraction ⁴	428	453	(n.a.)	(n.a.)	5 (64)	6 (65)	5 (63)	5 (70)	5 (72)	(n.a.)	(n.a.)	(n.a.)
Oil refining ⁵	617	(n.a.)	(n.a.)	(n.a.)	6 (61)	6 (61)	6 (63)	6 (70)	6 (73)	(n.a.)	(n.a.)	(n.a.)
Gas extraction ⁶	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(2.1)	(2.1)	(2.7)	(2.8)	(3.2)	(3.4)	(3.4)	(3.4)
Shale extraction ⁶	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(13.6)	(13.6)	(13.9)	(13.9)	(13.9)	(n.a.)	(n.a.)	(n.a.)
Ferrous metallurgy ⁷	1,405	(n.a.)	1,675	(n.a.)	1,742	1,751	1,764	1,812	1,841	1,886	1,923	1,947
Nonferrous metallurgy ¹¹	(n.a.)	458	(489)	(487)	(466)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
Lacing ¹²	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	1,172	(n.a.)	(n.a.)	(n.a.)
Wood working ⁷	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	951	(n.a.)	(n.a.)	(n.a.)
Paper ⁷	(n.a.)	1,049	1,332	(n.a.)	1,478	1,579	1,662	1,662	1,688	1,743	1,827	1,884
Food	(483)	(442)	(n.a.)	(583)	(657)	(654)	(719)	(786)	(740)	(n.a.)	(n.a.)	(n.a.)
Chemical ¹⁴	1,480	1,489	1,885	(n.a.)	2,158	2,385	2,467	2,515	2,579	3,371	3,472	3,533
Construction materials ¹	1,252	(n.a.)	619	830	(n.a.)	(n.a.)	(n.a.)	1,072	1,162	1,310	1,375	1,383
Cement	15 (36)	15 (37)	(n.a.)	(n.a.)	15 (42)	16 (44)	16 (48)	16 (51)	16 (57)	16 (60)	16 (62)	16 (66)
Glass and chinaware ⁷	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	181	(n.a.)	(n.a.)	(n.a.)
Electric power ¹	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	1,222	(n.a.)	17 (247)	(n.a.)	(n.a.)
Printing ¹	(n.a.)	18 (125)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)

See footnotes at end of table, p. 54.

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20 percent correction factor was applied in the case of the 1956 and 1957 employment.

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⁵ S.A. Kheyman, *Organizatsiya proizvodstva i prorabotki naftы truda v promyshlennosti SSSR (na primere mashinostroyeniya i Chernop. metallich.)* (Organization of Production and Labor Productivity in U.S.S.R. Industry By the Example of Machine-Building and Ferrous Metallurgy), Moscow, Gosplanizdat, 1961, p. 58.

⁶ A. V. Smirnov, "Changes in the Number and Composition of Wage Workers in U.S.S.R. Heavy Machine-Building in the Years of the Fourth Five-Year Plan (1946-1950)," in Akademicheskaya nauka SSSR, Institut istorii, Leningradskiy otdel, sostoyashchego rabochego klassa, Soveticheskaya stoychka (Changes in the Number and Composition of the Working Class, A Collection of Articles), edited by D.A. Bayevskiy et al., Moscow, Izdatelstvo Akademii nauk SSSR, 1961, pp. 246-251. This source provides wage data for other years as follows: 1945, 59,449; 1946, 62,822; 1947, 66,607; 1948, 74,189; 1949, 83,497.

⁷ M. M. Bremer, *Ekonomika neftedobychivaniya i promyslennosti SSSR (Economics of the U.S.S.R. Oil Extraction Industry)*, Moscow, Ekonomizdat, 1962, p. 244.

⁸ Calculated from an index given in I. N. Pyzhenskiy et al., "Factors in the Growth of Labor Productivity in the U.S.S.R. Oil Extraction Industry," in Gosudarstvennyi sotsiologicheskiy nauchno-issledovatel'skiy institut, *Ekonomika neftegazovyykh promyselenii* (Economics of the Oil Extraction Industry), Transactions, Issue XXXIX, Moscow, Gosoptekhnizdat, 1963, p. 194, and an absolute datum for 1958 from Kheyman, op. cit., p. 58.

⁹ Residual total oil extraction and refining minus oil extraction.

¹⁰ Kheyman, loc. cit.

¹¹ Estimated from productivity data given in L. M. Smirlyayeva, *Razvitiye goszavodstva i ekonomicheskaya effektivnost' kapitalointensivnoy (Development of the Gas Industry and Economic Effectiveness of Capital Intensiveness)*, Moscow, Izdatelstvo Akademii nauk SSSR, 1961, p. 57, and output data from TSSU pri Sovete ministrov SSSR, *Narodnoye khozyaystvo SSSR v 1958 godu, statisticheskiy yezhegodnik (The National Economy of the U.S.S.R. in 1958, A Statistical Yearbook)*, Moscow, Gosstatizdat, 1959, p. 213 (cited hereafter as Nar. khoz. v 1958). ¹² *Narodnoye khozyaystvo SSSR v 1960 godu, statisticheskiy yezhegodnik (The National Economy of the U.S.S.R. in 1960, A Statistical Yearbook)*, Moscow, Gosstatizdat, 1960, p. 211 (cited hereafter as Nar. khoz. v 1960). ¹³ *Narodnoye khozyaystvo SSSR v 1961 godu, statisticheskiy yezhegodnik (The National Economy of the U.S.S.R. in 1961, A Statistical Yearbook)*, Moscow, Gosstatizdat, 1962, p. 211 (cited hereafter as Nar. khoz. v 1961). ¹⁴ *Narodnoye khozyaystvo SSSR v 1962 godu, statisticheskiy yezhegodnik (The National Economy of the U.S.S.R. in 1962, Fourteenth Issue)*, New York, United Nations, Statistics Office, Statistical Yearbook 1962, 1963, p. 146 (for 1954 output). In addition to the figures shown in the table an estimate for 1954 of 2,000 wage workers employed in gas extraction can be derived.

¹⁵ Estimated by expanding reported employment in the Estonian state industry, given in D.T. Kurnitskov, *Ocherk razvitiya sluzhby promyshlennosti Estonii S.S.R.* (Survey on the Development of the State Industry of the Estonian S.S.R.), Leningrad, Gostekhizdat, 1960, p. 137, by the proportion of production in the Estonian S.S.R. to the reported U.S.S.R. production from TSSU pri Sovete ministrov SSSR, *Kerndatangitavyydoystvo SSSR v 1950 godu, statisticheskiy yezhegodnik (The National Economy of the U.S.S.R. in 1950, A Statistical Yearbook)*, Moscow, Gosstatizdat, 1960, p. 191 (cited hereafter as Nar. khoz. v 1950), and Nar. khoz. v 1961, p. 212.

¹⁶ Adjusted to correspond to the most recent classification on the basis of the observed relationship for years for which both sets of data are available. (Percent increase between new and old classifications: 1940, 122 percent; 1959, 120 percent; 1958, 119 percent). A

See source note to table 5.

In 1960, estimated as follows: Leningradskiy gosudarstvennyi universitet im. A. Zhdanova, *Reservy rosta prirabotki naftы truda v narodnom khozyaystve (Reserves for the Growth of Labor Productivity in the National Economy)*, edited by A. I. Klyuyev, Leningrad, Izdatelstvo Leningradskogo universiteta, 1962, p. 94. Gives 22.7 million persons employed in industry (including collective farm personnel) for 1960. Subtracting 22,291,000 industrial-production personnel in that year (Nar. khoz. v 1961, p. 181, excluding collective farm-industry employment) yields an estimated 409,000 for collective farm industry wage workers (other categories of collective farm-industrial-production personnel are probably minimal). Adding this to the reported Labor Section datum of 18,674,900 wage workers, a total estimate of 18,983,000 wage workers in industry is obtained. Thus, the reported 1960 share of ferrous and nonferrous metallurgy (5.3 percent), in L. I. Alter et al. (eds.), *Poet obnaruzheniya prototokola "Portofol'j narodnogo khozyaystva SSSR. Growth of Social Production and Propertions in the U.S.S.R. National Economy"*, Moscow, Sovetskizdat, 1962, p. 301) is applied. From the resultant 1,385,800, the reported 1960 employment in ferrous metallurgy is subtracted and an estimate of 500,000 is obtained. This figure is probably minimal because the estimating procedure omitted any estimated small-scale state industry employment not included in the Labor Section datum.

Employment estimates for other years also are rough approximations based on production-productivity indices given in Nar. khoz. v 1961, p. 174; Nar. khoz. v 1959, p. 147; TSSU pri Sovete ministrov SSSR, *Statisticheskaya doktrina (Industry of the U.S.S.R. Nonferrous Metallurgy)*, Moscow, Gosstatizdat, 1957, p. 36; S. A. Perovskiy et al., *Ekonomika tsvetnoy metallurgii SSSR (Economics of U.S.S.R. Nonferrous Metallurgy)*, Moscow, Metalurgizdat, 1960, p. 362; A. K. Bonomi and S. A. Pervusin, *Tekhnicheskiy progress i posokhovye protsessy naftы truda v tsvetnoy metallurgii SSSR (Technical Progress and Raising Labor Productivity in U.S.S.R. Nonferrous Metallurgy)*, Moscow, Metalurgizdat, 1963, p. 9; and M. Gorbunov and A. Zalikin, "Growth of Labor Productivity in the U.S.S.R. National Economy During the First Two Years of the Seven-Year Plan," in Nauchno-issledovatel'skiy institut truda Voprosy gosudarstvennogo kontrolla Soveta ministrov SSSR po voprosam truda i zarabotnoy platy, *Voprosy proizvodstvennogo nositi truda v semiletiye, Shornik "Voprosy proizvodstvennosti naftы truda," Issue VII, Plan, Collection*, Uchenye zapiski NTI truda, Issue VI, Moscow, n.D.

¹⁷ *Voprosy proizvodstvennosti naftы truda v semiletiye, Shornik "Voprosy proizvodstvennosti naftы truda v semiletiye, Shornik "Voprosy proizvodstvennosti naftы truda," Issue VII, Plan, Collection*, Uchenye zapiski NTI truda, Issue VI, Moscow, n.D.

¹⁸ Adjusted by 1 percent. (Percent increase between new and old classifications: 1940, 101.9 percent; 1958, 100.8 percent; 1959, 100 percent.) See footnote 10 above and source note to table 5.

¹⁹ For 1960, estimated by using the same procedure as in footnote 11 above. The reported proportion of wage workers in the chemical industry for 1960 is 3.9 percent (Al'ter, loc. cit.). Multiplying this by the estimate of 18,983,000 wage workers yields 75,000.

²⁰ Estimated employment for other years also are rough approximations based on production-productivity indices given in Nar. khoz. v 1971, p. 173; Nar. khoz. v 1960, p. 225; Nar. khoz. v 1959, pp. 146 and 154; and Vyschaya partnyarskaya shkola pri TSK KPSS, *Kakfeira politicheskoy ekonomiki, Sotsialisticheskoy sposob proizvodstva, voprosy II Sotsialisticheskoye protivodenie i raspredelenie (Socialist Means of Production, Issue II, Socialist Production and Distribution)*, edited by G. A. Kozlov, Moscow, Izdatelstvo VPSH i AON pri TSK KPSS, 1962, p. 188. Differences due to the change in branch classification indicated in Nar. khoz. v 1959 (for the 1940, 1950, and

1953 estimates) have been disregarded inasmuch as the index numbers available for both series do not vary greatly.
is Calculated from productivity data given in Z. I. Loginov, *Tsementnaya promyshlennost SSSR i perspektivye razvitiya* (U.S.S.R. Cement Industry and Perspectives of its Development), Moscow, Gosplanizdat, 1950, p. 111, and output data from Nar. khoz. v 1953, p. 259.
is Calculated from productivity data given in F. G. Banit et al., *Tsementnaya promyshlennost, Sostoyaniye i perspektivy razvitiya* (Cement Industry, Status and Future

Development), Moscow, Gosstroyindiat, 1953, p. 20, and output data from Nar. khoz. v 1953, pp. 134-185, and Nar. khoz. v 1951, p. 239. These data are estimated by using the same procedure and sources as in footnote 11 (18,983,000 wage workers times 1.3 percent).
is Average number of wage workers in 1948. As of March 1, 1949, there are reported to have been 130,570 wage workers in this industry. See N. I. Buziyakov, *Voprosy Planirovaniya i perecheta v SSSR* (Questions of Planning, Printing in the U.S.S.R.), Moscow, Gosplanizstro, "Iskustvo," 1957, p. 178.

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TABLE V-A-7.—*Workers and employees by branch of*
 [Employment figures are annual averages and are in thousands; figures in parentheses are estimated;

	1928	1932	1937	1940	1945
Total	10,790	22,601	26,744	31,192	27,263
Industry (industrial-production personnel)	3,773	8,000	10,112	10,967	9,508
Construction (construction-installation personnel)	723	2,289	1,576	1,563	1,515
Agriculture	1,735	3,048	2,857	2,976	(n.a.)
Sovkhozy and other state agricultural establishments	345	2,259	1,748	1,760	2,147
MTS/RTS ¹	144	566	530	385	
Unspecified agricultural establishments ²	1,315	545	295	407	(n.a.)
Forestry	75	100	248	279	(n.a.)
Transport and communications	1,365	2,241	3,026	3,903	3,537
Transport	1,270	2,017	2,651	3,425	3,111
Railroad transport	971	1,297	1,512	1,752	1,841
Water transport	104	146	180	203	190
Motor vehicle, urban electrical and other transport; freight handling; and road economy	195	574	959	1,470	1,080
Communications	95	224	375	478	426
Trade, procurement, material-technical supply and sales, and public dining	(583)	(2,184)	(2,509)	3,303	2,462
Trade, procurement, and material-technical supply and sales	³ (528)	³ (1,551)	³ (2,038)	2,519	1,747
Of which, retail trade	(n.a.)	855	1,264	1,382	(n.a.)
Public dining	55	633	471	784	715
Public health and education	1,206	2,106	3,495	4,531	(n.a.)
Public health	399	609	1,127	1,507	1,419
Education	807	1,437	2,368	3,024	(n.a.)
Educational institutions	725	1,292	2,089	2,663	
Science	82	145	279	361	2,551
Of which—					
Geological prospecting	10	23	30	70	(n.a.)
Hydrometeorological services	8	12	15	24	(n.a.)
"Other branches"	1,405	2,733	3,169	3,949	(n.a.)
Housing-communal economy	147	661	1,023	1,221	(n.a.)
Administrative organs	1,010	1,650	1,488	1,825	1,645
Credit and insurance organizations	95	128	193	262	197
Residual (capital repair of buildings and structures, drilling, project-survey organizations, literature and publishing, art, and other unidentified)	153	294	465	641	(n.a.)

¹ No adjustment has been made for transfers of some of the collective farmers to the rolls of machine tractor stations between 1953 and 1958, as was done in table V-A-4.

² Includes veterinary services, artificial insemination stations, research stations, etc.

³ Adjusted for reclassification of the personnel engaged in collection of secondary raw materials. The adjustment involved transferring the following number of persons from the "Trade, procurement, and material-technical supply" category to the "Other" category: 1928, 4,000; 1932, 13,000; and 1937, 16,000 (0.8 percent of total, based on the 1940 relationship:

2,519 = 99.2 percent).

⁴ In the handbook, TsSU pri Sovete ministrov RSFSR, *Narodnoye khozyaystvo RSFSR v 1961 godu, statisticheskii yezhegodnik* ("The National Economy of the R.S.F.S.R. in 1961. A Statistical Yearbook"), Moscow, Gosstatizdat, 1962, p. 442, for the first time in the postwar period is reported the employment in "Administrative organs" for the years 1955 and 1958-1961, in two parts—i.e., "State and economic administrative organs" and "Administrative organs of cooperative and social organs." The sum of these two subbranches equals that shown for the R.S.F.S.R. in the republic breakdown of the national employment figures in TsSU pri Sovete ministrov SSSR, *Narodnoye khozyaystvo SSSR v 1961 godu, statisticheskii yezhegodnik*

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 (n.a.) indicates data not available and no estimate made; and leaders indicate inapplicable]

1950	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
38,895	42,204	43,680	47,300	48,880	50,587	53,148	54,608	56,500	62,032	65,881	68,300
14,144 2,588	15,556 2,788	16,261 2,843	17,016 3,179	17,367 3,190	18,500 3,550	19,144 4,000	19,675 4,421	20,207 4,800	22,291 5,143	23,475 5,270	24,297 5,150
3,881	4,155	4,442	(n.a.)	6,546	6,485	7,170	6,562	6,190	7,482	8,216	8,608
2,425 678 334 444	2,538 794 366 462	2,552 1,118 366 (n.a.)	2,639 (2,900) 366 (n.a.)	2,832 3,065 260 389	2,925 2,880 290 390	3,961 2,554 278 377	4,614 1,219 362 367	4,067 469 412 352	6,324 348 451 359	7,366 3 460 378	7,730 0 489 389
4,624	5,100	5,352	(n.a.)	5,650	5,840	5,996	6,332	6,663	7,017	7,308	7,500
4,082	4,595	4,770	(n.a.)	5,039	5,216	5,355	5,668	5,972	6,279	6,518	6,677
2,068 222	2,232 244	2,275 260	2,321 (n.a.)	2,302 285	2,307 300	2,323 317	2,330 320	2,338 317	2,348 322	2,311 327	2,295 327
1,792	2,119	2,235	(n.a.)	2,452	2,600	2,715	3,018	3,317	3,609	3,880	4,055
542	565	582	(506)	611	624	641	664	691	738	790	832
3,325	3,495	3,463	(3,668)	3,725	3,826	4,017	4,190	4,389	4,675	5,010	5,253
2,668 1,308 659	2,775 1,435 720	2,698 1,404 765	2,848 1,519 820	2,869 1,634 856	2,935 1,666 801	3,089 1,739 928	3,231 1,888 959	3,398 2,050 991	3,606 2,226 1,069	3,852 2,403 1,168	4,015 2,562 1,238
6,080	6,608	6,815	(n.a.)	7,607	7,933	8,350	8,775	9,275	10,027	10,833	11,552
2,051 4,029	2,220 4,382	2,308 4,607	(n.a.) (n.a.)	2,627 4,980	2,736 5,197	2,892 5,458	3,059 5,716	3,245 6,030	3,461 6,568	3,677 7,176	3,818 7,734
{ 3,315 714	3,553 829	3,647 860	(n.a.) (n.a.)	3,988 992	4,103 1,094	4,250 1,208	4,378 1,338	4,556 1,474	4,803 1,763	5,165 2,011	5,521 2,213
245 32	(n.a.) (n.a.)	320 39	(n.a.) (n.a.)	356 42	379 42	382 45	398 47	(n.a.) (n.a.)	(n.a.) (n.a.)	(n.a.) (n.a.)	(n.a.) (n.a.)
4,272	4,442	4,484	(n.a.)	4,295	4,408	4,471	4,650	4,985	5,397	5,720	5,931
1,210 1,831 264	1,315 1,786 262	1,345 1,726 263	(n.a.) (n.a.) (n.a.)	1,400 4,1,361 265	1,503 1,342 266	1,579 1,294 261	1,632 4,1,294 260	1,713 4,1,273 260	1,920 4,1,245 265	2,030 4,1,295 277	2,096 1,316 283
967	1,070	1,150	(n.a.)	1,260	1,292	1,337	1,464	1,739	1,967	* 2,127	2,236

(The National Economy of the U.S.S.R. in 1961, A Statistical Yearbook), p. 570, and in other handbooks for 1958 and 1960. For all of these five years shown in the R.S.F.S.R. handbook, the proportion of the first subbranch to the total of the two subbranches varies no more than two-tenths of a percentage point from 90.0 percent. Using this proportion, estimates for U.S.S.R. employment in these years for each subbranch can be made as follows (in thousands): "State and economic administrative organs"—1955, 1,225; 1958, 1,185; 1959, 1,143; 1960, 1,120; 1961, 1,106; and for "Administrative organs of cooperative and social organs"—1955, 136; 1958, 129; 1959, 127; 1960, 124; 1961, 130.

4 Estimates of subbranch employment can be derived for the first time in the postwar period for the "Residual" category of "Other branches" by the following procedure: The R.S.F.S.R. handbook (*ibid.*) reports employment in "Other branches" to be 1,347,000 workers and employees in 1961, and the U.S.S.R. handbook (*ibid.*) indicates 2,127,000 workers and employees in the same year for the country as a whole. The ratio of the two data (U.S.S.R./R.S.F.S.R. of 1.58) is then applied to each of the reported R.S.F.S.R. subbranches to obtain approximations of the U.S.S.R. 1961 employment in these subbranches, as follows (in thousands): 1. Capital repair of buildings and structures—740 (468 times 1.58); 2. Drilling—130 (82 times 1.58); 3. Project-survey organizations—430 (270 times 1.58); 4. Literature and Publishing—90 (58 times 1.58); 5. Art—315 (200 times 1.58); 6. Other unidentified residual—425 (209 times 1.58).

Source: See source note to table V-A-5.

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TABLE V-A-8.—*Measures of collective farm employment, U.S.S.R.: Selected years, 1937-63*
 [Figures in parentheses are estimated; (n.a.) indicates data not available and no estimate made]

Year	Number of collective farmers who participated in the socialized economy during the year (in thousands)		Annual average number of collective farmers who participated in the socialized economy (in thousands)		Annual average number of labor-days earned or man-days worked by—		Conversion factor (number of labor-days per 1 man-day)	Total number of labor-days (in millions)	Total number of labor-days earned (in millions)	Number of able-bodied farmers who worked (in thousands)
	Total	Of which, able-bodied ¹	Total activity	Excluding fishing collective farms	Including fishing collective farms					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)			
1937	540,716	6 (65,900)	710,4	(n.a.)	6 (194)	8 (148)	8 (218)	11 (7,883)	11 (6,072)	12 (36,206)
1940	13,12,673	13,31,923	45,17,4	71,3	45,29,000	55,26,100	55,26,100	17,1,30	11 (7,188)	12 (36,689)
1950	5 (39,837)	5 (18,28,603)	5 (n.a.)	5 (n.a.)	5 (19,27,600)	5 (19,24,800)	5 (19,24,800)	5 (8,254)	11 (7,143)	12 (32,600)
1951	5 (38,371)	5 (n.a.)	5 (n.a.)	5 (n.a.)	5 (n.a.)	5 (n.a.)	5 (n.a.)	5 (8,251)	11 (7,116)	11 (6,899)
1952	5 (37,147)	5 (n.a.)	5 (n.a.)	5 (n.a.)	5 (n.a.)	5 (n.a.)	5 (n.a.)	5 (8,254)	11 (7,116)	11 (6,899)
1953	5 (37,365)	5 (18,26,761)	5 (n.a.)	5 (n.a.)	5 (15,25,600)	5 (15,23,300)	5 (15,23,300)	5 (8,178)	11 (7,124)	11 (6,899)
1954	5 (37,603)	5 (18,27,263)	5 (n.a.)	5 (22,2,6)	5 (25,458)	5 (24,19)	5 (24,19)	5 (8,170)	11 (7,139)	11 (6,899)
1955	5 (40,044)	5 (28,419)	5 (n.a.)	5 (n.a.)	5 (25,458)	5 (24,300)	5 (24,300)	5 (8,170)	11 (7,139)	11 (6,899)
1956	20,38,450	27 (26,382)	5 (n.a.)	5 (26,198)	5 (26,198)	5 (24,800)	5 (24,800)	5 (8,166)	11 (7,005)	11 (6,899)
1957	18,27,699	18,27,699	5 (n.a.)	5 (26,980)	5 (25,700)	5 (25,700)	5 (25,700)	5 (8,166)	11 (7,005)	11 (6,899)
1958	20,36,482	31,57,699	5 (n.a.)	5 (25,280)	5 (25,300)	5 (24,900)	5 (24,900)	5 (8,166)	11 (7,005)	11 (6,899)
1959	20,35,411	32,57,699	5 (n.a.)	5 (25,300)	5 (25,075)	5 (24,900)	5 (24,900)	5 (8,166)	11 (7,005)	11 (6,899)
1960	20,35,411	37,3,0	5 (n.a.)	5 (24,101)	5 (24,075)	5 (24,500)	5 (24,500)	5 (8,166)	11 (7,005)	11 (6,899)
1961	(n.a.)	42,21,732	5 (n.a.)	43,22,300	5 (21,101)	5 (22,100)	5 (22,100)	5 (8,170)	11 (7,005)	11 (6,899)
1962	(n.a.)	42,20,323	5 (n.a.)	43,20,700	5 (18,700)	5 (18,700)	5 (18,700)	5 (8,170)	11 (7,005)	11 (6,899)
	(n.a.)	42,19,784	5 (n.a.)	44,20,000	5 (18,100)	5 (18,100)	5 (18,100)	5 (8,170)	11 (7,005)	11 (6,899)

See footnotes at end of table, pp. 59, 60.

- ¹² Column 12 divided by column 10.
- ¹³ Yu. V. Arutyunyan and V. P. Danilov, "Official Collection of Collective Farm Reports in the Country During the Period of the Fatherland War," *Istoričeskiy arkhiv* [Historical Archive], no. 6, October 1962, p. 30. Extracting Yakut A.S.R.
- ¹⁴ Ibid., p. 37. Excluding Yakut and Komi A.S.S.R.s.
- ¹⁵ TSSU pri Sovete ministrov SSSR, *Narodnoye khozyaistvo SSSR v 1960 godu*, statisticheskii zhurnal [The National Economy of the U.S.S.R. in 1960, A Statistical Yearbook], Moscow, Gosstatistika, 1961, p. 521 (cited hereafter as *Nar. khoz. v 1960*). The employment data for 1955 through 1958 including fishing collective farms are lower than that reported as excluding this type of collective farm because of the shift of collective farmers to MTS tractor brigades.
- ¹⁶ Arutyunyan and Danilov, op. cit., pp. 19-20.
- ¹⁷ A. A. Ivanchenko and P. S. Minakov, *Voprosy metodiki planiruemykh proizvodstv* [Questions of the Method of Planning Labor Productivity], *nosit truda i sestroye khozyaistva* [Questions of the Method of Planning Labor Productivity in Agriculture], Moscow, Gosplanizdat, 1950, p. 28.
- ¹⁸ Yu. V. Arutyunyan, *Mechanizmy sotsialisticheskogo kachestva* [Mechanisms of U.S.S.R. Agricultural Production], Moscow, Izdatel'stvo "Promizdat" [Publishing House of the Ministry of Trade and Foreign Trade], 1957, 96.
- ¹⁹ *Statisticheskaya radiotransmisiya massovyykh zadaniy* [Mechanized Personnel of U.S.S.R. Agricultural Production], Moscow, Izdatel'stvo "Promizdat" [Publishing House of the Ministry of Trade and Foreign Trade], 1957, 95.
- ²⁰ *Statisticheskaya radiotransmisiya massovyykh zadaniy* [Mechanized Personnel of U.S.S.R. Agricultural Production], Moscow, Izdatel'stvo "Promizdat" [Publishing House of the Ministry of Trade and Foreign Trade], 1957, 95.
- ²¹ *Statisticheskaya radiotransmisiya massovyykh zadaniy* [Mechanized Personnel of U.S.S.R. Agricultural Production], Moscow, Izdatel'stvo "Promizdat" [Publishing House of the Ministry of Trade and Foreign Trade], 1957, 95.
- ²² *Statisticheskaya radiotransmisiya massovyykh zadaniy* [Mechanized Personnel of U.S.S.R. Agricultural Production], Moscow, Izdatel'stvo "Promizdat" [Publishing House of the Ministry of Trade and Foreign Trade], 1957, 95.
- ²³ *Statisticheskaya radiotransmisiya massovyykh zadaniy* [Mechanized Personnel of U.S.S.R. Agricultural Production], Moscow, Izdatel'stvo "Promizdat" [Publishing House of the Ministry of Trade and Foreign Trade], 1957, 95.
- ²⁴ The concept of able-bodied equivalent farmers is used in Soviet planning and statistics to estimate the prime labor input on farms. The number is calculated by dividing the total number of labor-days earned or man-days worked (by persons of all ages who participated in the socialized economy) by the average number of labor-days earned (or man-days worked) by able-bodied farmers alone. *Avtobodil'nye kollektivnye* [Actual able-bodied collective appearances for work] (*vykhod na rabotu*), and the number of hours of inputs is not standardized as yet.
- ²⁵ One man-day (*chelovek-den*), sometimes designated workday (*rabochy den'*), is much closer to a measure of time input than a labor-day. It is, however, related to appearances for work (*vykhod na rabotu*), and the number of hours of inputs is not standardized as yet.
- ²⁶ The concept of able-bodied equivalent farmers is used in Soviet planning and statistics to estimate the prime labor input on farms. The number is calculated by dividing the total number of labor-days earned or man-days worked (by persons of all ages who participated in the socialized economy) by the average number of labor-days earned (or man-days worked) by able-bodied farmers alone. *Avtobodil'nye kollektivnye* [Actual able-bodied collective farmers will, of course, convert to able-bodied equivalent farmers on a one-to-one basis. Farmers will, however, that in 1959 the 3,212,300 actual nonable-bodied farmers (column 1 minus column 2) convert to less than half the number, or 4,531,000 able-bodied equivalent farmers (column 1 minus column 2). See also note 13.
- ²⁷ U.S. Bureau of the Census, *The Magnitude and Distribution of Civilian Employment in the U.S.P. 1953-1959*, by Murray S. Weitzman and Andrew Elias, International Population Reports, Series P-45, No. 53, Washington, D.C., Foreign Manpower Research Office, Bureau of the Census, April 1961, table C-1, p. 142 (cited hereafter as Weitzman and Elias).
- ²⁸ Estimated from total money income of collective farms and average money income per one able-bodied collective farmer who worked on the collective farm. J. Arins, "Collective Farms in 1958 (From Materials of the Collective Farm Annual Reports)," *Sotsiologicheskoye issledovaniye khozyaistva* [Sociological Analysis of the Collective Farm Economy], No. 12, December 1959, p. 64.
- ²⁹ Percentages shown relate to total number of on-hand able-bodied collective farmers at end of year, including both those who did not participate in the socialized economy. M. I. Fedorova, *Ustreplenie obshchestvennogo khozyaistva kollektivizatsii i zemleniy v politike sovetskoy sotsialisticheskoy produkcii i narodnogo khozyaistva* [Strengthening of the Socialized Economy of Collective Farms and Changes in the Policy of Protection of Agricultural Products During the Peaceful Years of the Third Five-Year Plan, Lectures], Moscow, Izdatel'stvo Moskovskogo universiteta, 1960, p. 34. See also D. 2 defining these data as pertaining to able-bodied collective farmers.
- ³⁰ Weitzman and Elias, table C-2, p. 152. Average number of labor-days for the prewar period relate to all farmers 16 years of age and over; data for the postwar period relate to current definition of able-bodied collective farmers. See footnote 13.
- ³¹ Column 8 divided by column 13.
- ³² TUNKU Gospplans SSSR, *Proizvodstvo i posl'ye v kollektivnykh rolnikakh po rionam i oblastnym uchrezhdeniyam* [Production and Utilization of Labor in Collective Farms by Regions and Districts], Moscow-Leningrad, Gosplanizdat, 1959, p. 88.
- ³³ Column 12 divided by column 13.

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Moscow, Sel'khozizdat, 1962, p. 94. Of this total of 10.3 billion labor-days, 9.2 billion, or 89.3 percent, were earned by able-bodied collective farmers (*ibid.*).
35 A. Gol'tsov, "Utilization of Labor Resources in Collective Farms," *Naučnyye doklady na sovetskoye selskogo hospodarstva i ekonomiki SSSR* (Scientific Reports of Higher Schools, Economic Sciences), no. 1, 1961, p. 47. Total number of man-days worked in the private subsidiary economy in 1958 is reported to be 3,353.0 million (*ibid.*).
36 Shishkin, pp. 98 and 99. Estimated by multiplying the total number of participants (35,411,100) by the share of able-bodied collective farmers (7.9 percent).
37 Rozhin, *op. cit.*, p. 79. The figure of 795,500 represents the sum of the republic data given in the source, not the total shown of 748,600. Moreover, according to another Glutkov, "Raising the Productivity of Agricultural Labor—A Most Important Condition for the Building of Communism," *Vneshnaya doktrina dekollektivizatsii* (Foreign Policy of Decollectivization), Sov. obshchestvo, Moscow, 1962, p. 109. According to Shishkin, p. 409, 1.4 percent of the male able-bodied farmers and 4.1 percent of the female able-bodied farmers did not participate in the collective farm socialized economy. See also footnote 7.
38 Shishkin, *loc. cit.*
39 *Ibid.*, p. 98.
40 S. I. Semin, *Nadimyye fondy i puti shchitenniya kolkhozno-kollektivizatsionnoi s obshchenarodnoi (indivisibilnoi) fondami i metodami dlya otsenivaniya* (Property Close to Public Property), Moscow, Ekonomizdat, 1961, p. 79.
41 Shishkin, p. 91. Total number of man-days worked in the private subsidiary economy in 1959 is reported to be 3,537.3 million (*ibid.*). Additional data on the 1959 labor inputs into the socialist and private subsidiary economies by age and sex, in terms of a detailed percentage distribution of man-hours, is given in M. P. Vasilenko, *Počtu predloživaem trudu v kolkhozakh (Means for Overcoming Seasonality of Work in Collective Farms)*, Moscow, Izdatel'stvo Sovetskaya Rossiya, 1963, pp. 32 and 34.
42 TSSU pri Sovete ministrów SSSR, *Narodnoye khozyaistvo SSSR v 1962 godu*, statisticheskiy zhurnal (The National Economy of the U.S.S.R. in 1962, A Statistical Yearbook), Moscow, Gosstatizdat, 1963, p. 369 (cited hereafter as *Nar. khoz. v 1962*).
43 ———, *Nerodnoye khozyaistvo SSSR v 1961 godu*, statisticheskiy zhurnal (The National Economy of the U.S.S.R. in 1961, A Statistical Yearbook), Moscow, Gosstatizdat, 1962, p. 401.
44 *Nar. khoz. v 1962*, p. 388.

Khозяйство SSSR v 1959 godu, statisticheskii yezhegodnik (The National Economy of the U.S.S.R. in 1959. A Statistical Yearbook), Moscow, Gosstatizdat, 1960, p. 423. Computed from an index of the annual average number of workdays, 1954=100, in T. Zaslavskaya, "Economic Conditions for the Introduction of Monetary Payments for Collective Farmer Pay," *Voprosy ekonomiki (Problems of Economics)*, no. 11, November 1959, p. 50.
25 Probably excluding persons working permanently in State industry, etc.
26 A. Gol'tsov, "Problems in the Utilization of Collective Farm Labor Resources," *Buđil'eden, nauchnyy informator, Trud i zarabotok gospodstva (Bulletin of Scientific Information, Labor and Wage)*, no. 6, June 1959, p. 42.
27 Institut ekonomiki Akademii nauk SSSR, *Osnovnosti i faktory razmeshcheniya chislennostirodnoi khozyaistva SSSR. Charakteristika i faktory rukovodstva vnesistem* (National Economy of the U.S.S.R.), edited by Ya. G. Ferguson et al., Moscow, Izdatel'stvo Akademii nauk SSSR, 1960, p. 414. Excluding full-time students and members working in State establishments and institutions. This source also reports the total number of participants in collective farm production for 1958 as 36.8 million. The difference between this figure and that shown in column 1 probably represents the total and members working outside the collective farm sector. An estimate of 26,941,900 able-bodied participants also can be computed from data in Vanyushin, *op. cit.*, pp. 79 and 81; another estimate of 27,246,000 can be derived by dividing the collective farm indivisible fund (*Sel'khoz. zhur.*, pp. 72-73) by the ruble amount of indivisible funds per one on-hand able-bodied collective farmer in V. P. Rozhin, *Nekotorye imeny po perekhodu seleniya k kolkhozam (Some Problems in Raising the Economy of West Collective Farms)*, Moscow, Ekonomizdat, 1961, p. 37. From the last two sources, estimates for other years also can be derived as follows: 1953—26,759,000; 1957—27,708,000; 1959—26,722,000.
28 A. P. Teryayeva, "Progressive Forms of Payment for Work in Collective Farms," in Akademiiia nauk SSSR, Institut ekonomiki, *Razvitiye obshchestvennogo khozyaistva i kolkhozov (Development of the Socialized Economy of Collective Farms)*, edited by P. S. Buranov et al., Moscow, Sel'khozgiz, 1960, p. 154.
29 A. Voronin, "On the Combining of Agricultural and Industrial Production in the Village," *Voprosy ekonomiki*, no. 10, October 1961, p. 85.
30 B. I. Braginsky, *Prinzipial'nost' truda v sel'skom khozyaistve. Metodika ucheta i planirovaniya (Labor Productivity in Agriculture, Methods of Recording and Planning)*,

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TABLE V-A-9.—*Employment in the private agricultural economy, by subsector,
 U.S.S.R.: Selected years, 1940-62*

[Absolute figures are 280-day man-year equivalents and are in thousands: (n.a.) indicates data not available and no estimate made]

Year	Total	Collective farmers	Workers and employees	Individual peasants and other categories of population
Conventional man-year equivalents: ¹				
1940	(n.a.)	9,133.7	2,088.6	(n.a.)
1950	(n.a.)	7,939.0	2,542.6	(n.a.)
1953	10,737.1	8,000.3	2,599.1	47.7
1955	12,196.0	9,143.2	3,003.3	49.5
1956	12,558.6	9,505.1	3,009.0	44.5
1957	12,622.8	9,045.4	3,542.2	35.2
1958	12,736.6	9,049.8	3,653.5	33.3
1959	11,701.3	8,259.0	3,417.8	24.5
1960	11,130.8	7,217.8	3,803.0	20
1961	10,858.1	6,671.0	4,176.4	10.7
1962	10,898.2	6,612.9	4,277.0	8.3

¹ Estimated on the basis of the labor-input requirements to cultivate and care for the agricultural holdings in private ownership.

Source: TsSU pri Sovete ministrov SSSR, *Narodnoye khozyaystvo SSSR v 1956 godu, statisticheskiy yezhegodnik* (*The National Economy of the U.S.S.R. in 1956, A Statistical Yearbook*), Moscow, Gosstatizdat, 1957, pp. 114-115; ———, *Sel'skoye khozyaystvo SSSR, statisticheskiy sbornik* (*Agriculture of the U.S.S.R., A Statistical Compilation*), Moscow, Gosstatizdat, 1960, pp. 128-129, 266-267; ———, *Narodnoye khozyaystvo SSSR v 1960 godu, statisticheskiy yezhegodnik* (*The National Economy of the U.S.S.R. in 1960, A Statistical Yearbook*), Moscow, Gosstatizdat, 1961, pp. 389-391; ———, *Narodnoye khozyaystvo SSSR v 1961 godu, statisticheskiy yezhegodnik* (*The National Economy of the U.S.S.R. in 1961, A Statistical Yearbook*), Moscow, Gosstatizdat, 1962, pp. 316-317, 382-383; ———, *Narodnoye khozyaystvo SSSR v 1962 godu, statisticheskiy yezhegodnik* (*The National Economy of the U.S.S.R. in 1962, A Statistical Yearbook*), Moscow, Gosstatizdat, 1963, pp. 252-253, 303-304; and A. Gol'tsov, "Utilization of Labor Resources in Collective Farms," *Nauchnye doklady vysshykh shkoly, Ekonomicheskiye nauki* (*Scientific Reports of Higher Schools, Economic Sciences*), No. 1, 1961, pp. 40-47.

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TABLE V-A-10.—U.S.S.R. and U.S. employment, by nonagricultural and agricultural sectors: Selected years, 1940-62

[Absolute figures in thousands]

Year	U.S.S.R.			United States					
	Total, excluding domes- ties, day laborers, etc.	Non- agri- cultural sector	Agri- cultural sector	Constructed series			Household interview series		
				Total, excluding employ- ment in private house- holds	Nonagri- cultural sector	Agricul- tural sector	Total, excluding employ- ment in private house- holds	Nonagri- cultural sector	Agricul- tural sector
1940	79,019	35,129	43,590	47,433	37,893	9,540	45,320	35,790	9,510
1950	79,593	41,100	38,493	58,995	51,488	7,507	57,982	50,455	7,507
1953	81,942	45,334	36,608	63,426	58,864	6,562	60,281	53,669	6,562
1955	87,476	48,250	39,226	64,324	57,594	6,730	60,978	54,248	6,730
1956	90,313	49,929	40,384	66,101	59,516	6,585	62,620	56,035	6,585
1957	91,512	51,757	39,755	66,333	60,111	6,222	62,683	56,461	6,222
1958	93,790	53,845	39,947	64,432	68,588	5,844	61,510	55,666	5,844
1959	94,352	50,132	38,219	66,588	60,752	5,836	63,061	57,225	5,836
1960	95,692	57,985	37,707	67,461	61,738	5,723	64,192	58,469	5,723
1961	97,622	60,702	36,920	67,091	61,628	5,463	64,202	58,739	5,463
1962	90,395	62,728	36,667	68,451	63,261	5,190	65,221	60,081	5,190

¹ Beginning in 1960, all U.S. data include Alaska and Hawaii. For 1959, only the Bureau of Labor Statistics component data, based on establishment payroll records, include Alaska and Hawaii. See Table 12.

Source: U.S.S.R.: Table 4. Nonagricultural and agricultural employment as shown in table 4 was adjusted in order to achieve greater comparability for U.S.S.R.-United States comparisons. Employment in U.S.S.R. agriculture for such activities as repair of machinery and equipment, and industrial and construction activities was transferred to the nonagricultural sector. Detailed numerical adjustments are shown in table 11. United States: No adjustments were made to transfer from agricultural employment such farm activities as the repair of machinery and equipment, and logging operations of farmers. A Soviet economist, Ya. Ioffe, contends that United States agricultural employment statistics omit women who cook for hired laborers on farms, whereas in the U.S.S.R. employment of cooks in field camps is included. (Ya. Ioffe, "The Level of Labor Productivity in the U.S.S.R. and the U.S.A.", *Planovoye khozyaystvo [Planned Economy]*, No. 3, March 1960, p. 51.) Constructed series: Table 12. Household interview series: For all years except 1940, the subtraction of employment in private households from total employment and the nonagricultural sector is based on data given in the annual reports for this series. The 1940 estimate for employment in private households, 2,200,000, is based on national income data (U.S. Department of Commerce, Office of Business Economics, *National Income, 1954 Edition, A Supplement to the Survey of Current Business*, 1954, table 25, pp. 196 and 197). 1940: U.S. Department of Commerce, Bureau of the Census, *Statistical Abstract of the United States, 1960*, 1960, table 263, p. 205. 1950: U.S. Department of Commerce, Bureau of the Census, *Annual Report on the Labor Force, 1950*, Series P-50, No. 31, March 1951, table 9, p. 23. 1953: U.S. Department of Commerce, Bureau of the Census, *Annual Report on the Labor Force, 1954*, Series P-50, No. 59, April 1955, table C-9. 1955: U.S. Department of Commerce, Bureau of the Census, *Annual Report on the Labor Force, 1955*, Series P-50, No. 67, March 1956, table 12, p. 28. 1956: U.S. Department of Commerce, Bureau of the Census, *Annual Report on the Labor Force, 1956*, Series P-50, No. 72, March 1957, table 12, p. 28. 1957-60: U.S. Department of Labor, "Labor Force and Employment in 1960," by Robert L. Stein and Herman Travis, *Special Labor Force Report*, No. 14, table C-4, p. A-21. 1961: U.S. Department of Labor, "Labor Force and Employment in 1961," by Carol Kalish, Frazier Kellogg, and Matthew Kessler, *Special Labor Force Report*, No. 23, table C-4, p. A-20. 1962: U.S. Department of Labor, "Labor Force and Employment, 1960-1962," by Jane L. Morroth, *Special Labor Force Report*, No. 31, table C-4, p. A-18.

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TABLE V-A-11.—*Adjustment of U.S.S.R. civilian employment to correspond to U.S. nonagricultural and agricultural sectors: Selected years, 1940-62*

Employment category	1940	1950	1953	1955	1956	1957	1958	1959	1960	1961	1962
Total civilian employment.....	79,019	79,333	81,942	87,476	90,313	91,512	98,790	94,352	95,682	97,622	99,365
Nonagricultural branches.....	35,129	41,100	45,334	48,250	49,929	51,757	53,845	56,133	57,385	60,702	62,723
Workers and employees (excluding agricultural establishments and forestry).....	28,216	35,014	39,218	41,824	44,052	45,978	48,043	50,319	54,550	57,645	59,692
Members of producers' cooperatives.....	2,200	1,300	1,600	1,860	1,200	1,195	1,145	1,300	1,400	1,744	1,744
Independent artisans.....	604	264	214	164	2,116	2,716	2,884	2,768	2,960	3,019	3,034
Collective farms.....	3,100	3,060	2,687	2,716	2,716	2,716	2,716	2,716	2,716	2,716	2,716
Agricultural.....	2,700	2,600	2,400	2,300	2,400	2,400	2,400	2,700	2,700	1,600	1,700
Nonagricultural 1.....	400	297	416	434	468	468	468	260	319	454	312
State agricultural establishments.....	730	878	1,189	1,347	1,258	1,259	1,019	869	848	903	600
State farms and subsidiary state agricultural establishments.....	200	200	300	290	200	200	300	300	400	500	600
Machine tractor stations (repair-technical stations).....	530	678	889	1,147	1,058	989	719	469	348	348	3
Forestry.....	279	444	416	389	390	377	367	362	359	378	389
Agricultural branches.....	43,890	38,493	36,608	39,226	40,384	39,755	39,945	38,219	37,707	36,920	36,607
Workers and employees.....	4,006	5,102	5,207	5,895	6,024	7,481	8,330	8,387	10,168	11,411	11,896
State farms and subsidiary state agricultural establishments.....	1,560	2,225	2,352	2,632	2,725	3,661	4,314	4,557	5,824	6,766	7,130
Agricultural activities not specifically identified.....	2,039	2,643	3,344	2,659	3,008	2,990	2,78	3,362	4,412	4,468	4,489
Private subsidiary economy.....	33,934	32,239	31,264	33,147	34,213	32,162	31,515	29,139	27,431	25,346	24,736
Collective farms.....	24,700	24,200	23,100	23,900	24,600	23,000	22,400	21,400	20,100	18,700	18,100
Agricultural.....	100	100	74	104	108	117	65	80	113	75	43
Nonagricultural.....	9,134	7,939	8,690	9,143	9,505	9,046	9,050	8,259	7,218	6,671	6,613
Private subsidiary economy.....	5,950	1,152	0	179	186	167	132	-25	92	40	31
Individual peasants.....	0	-42	-2	-20	-20	-25	+1	+33	+23	-16	-16
Correction for rounding.....											

¹ 80 percent of all employment in nonagricultural collective farms was allocated to the nonagricultural branches and 20 percent to agricultural branches.

Source: Table 4.

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TABLE V-A-12.—*Civilian employment in the United States, by major employment categories: Selected years, 1940-62*
 [In thousands. Figures are independently rounded and may not add to totals]

Source of information and major employment category ¹	1940	1950	1953	1955	1956	1957	1958	1959	1960 ^a	1961 ^a	1962 ^a	1962 ^b
Total civilian employment, excluding private household workers ²	47,433	58,965	63,426	64,324	66,101	66,333	64,432	66,588	67,461	67,091	68,451	
BLS data based on establishment payroll records—wage and salary employment ³	32,376	45,222	50,232	50,675	52,408	52,904	51,423	52,404	54,370	54,224	55,841	
Mining, construction	925	901	866	792	822	828	751	732	712	672	632	
Manufacturing	1,294	2,333	2,623	2,802	2,989	2,923	2,778	2,960	2,885	2,816	2,909	
Transportation, communications, and public utilities	10,985	15,241	17,549	16,882	17,243	17,174	15,545	16,675	16,796	16,327	16,839	
Wholesale and retail trade	3,638	4,034	4,290	4,141	4,244	4,241	3,976	4,011	4,094	3,963	3,963	
Finance, insurance, and real estate	6,750	9,386	10,247	10,535	10,858	10,886	10,750	11,127	11,391	11,337	11,532	
Services and miscellaneous	1,502	1,910	2,146	2,335	2,429	2,477	2,519	2,594	2,669	2,731	2,736	
Government	3,681	5,382	5,867	6,274	6,536	6,749	6,811	7,115	7,392	7,610	7,949	
BLS-Census data based on household interviews—wage and salary, self-employed, and unpaid family employment ⁴	4,202	6,026	6,645	6,914	7,277	7,626	7,838	8,190	8,520	8,828	9,188	
Agriculture	10,080	7,911	6,985	7,254	7,166	6,848	6,449	6,433	6,338	6,195	5,813	
Unpaid family employment (nonagricultural)	9,540	7,507	6,562	6,730	6,585	6,222	5,844	5,826	5,723	5,463	5,190	
NID data—self-employed (nonagricultural) ⁵	4,997	5,862	6,209	6,395	6,527	6,581	6,560	6,751	6,753	6,742	6,797	

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¹BLS refers to the U.S. Department of Labor, Bureau of Labor Statistics; Census refers to the U.S. Department of Commerce, Bureau of the Census; NLD refers to the U.S. Department of Commerce, Office of Business Economics, National Income Division.
²Beginning in 1960, all data include Alaska and Hawaii. For 1959, only BLS data based on establishment payroll records include Alaska and Hawaii.
³Employment excludes that for private household workers since no employment estimates are available for the U.S.S.R. for domestics, day laborers, etc.
⁴Employment figures are reported in the former series of *Annual Reports on the Labor Force*, issued by the U.S. Department of Commerce, Bureau of the Census, and now in the *Special Labor Reports*, prepared by the U.S. Department of Labor, Bureau of Labor Statistics. A similar series for workers in private households is presented in the various *National Income* editions of the *Survey of Current Business*. In 1951, employment for private household workers was 2,584,000 (U.S. Department of Labor, "Labor Force and Employment in 1951," by Carol Kalish, Frazier Kellege, and Matthew Kessler, *Special Labor Force Report*, No. 23, table C-4, p. A-20). In the National Income series, 1950 employment for full-time and part-time employees in private households is 2,862,000 (U.S. Department of Commerce, *Office of Business Economics, Survey of Current Business*, July 1951, table 53, p. 29). Employment also excludes that for prisoners. For the United States, there are no recent employment data for prisoners. A study of Federal and State prisons by the Bureau of Labor Statistics for fiscal year 1940 reported 191,776 prisoners, of whom: employed, 88,515; engaged in prison duties, 68,395; attended school, 11,863; sick or otherwise unavailable, 16,519; and idle, 10,380 (U.S. Department of Labor, Bureau of Labor Statistics, *Prison Labor in the United States*, 1940, by Richard F. Jones, Jr., Bulletin No. 698, 1941, table 5, p. 11). The reported population in Federal and State prisons at the end of 1960 was 213,122 (U.S. Department of Commerce, Bureau of the Census, *Statistical Abstract of the United States*, 1962, table 289, p. 160).

⁴U.S. Department of Labor, Bureau of Labor Statistics, *Employment and Earnings, Annual Supplement Issue*, vol. 10, No. 3, September 1963, table B-1, p. 13.

⁵1940: Agriculture: Figure is reported in U.S. Department of Commerce, Bureau of the Census, *Statistical Abstract of the United States*, 1960, 1963, table 223, p. 225. Unpaid family employment (nonagricultural): Unpublished estimate from U.S. Department of Labor, Bureau of Labor Statistics, 1950 U.S. Department of Commerce, Bureau of the Census, *Annual Report on the Labor Force*, 1950, Series P-50, No. 31, March 1951; table 9, p. 23. 1953: U.S. Department of Commerce, Bureau of the Census, *Annual Report on the Labor Force*, 1953, Series P-50, No. 50, April 1955, table C-9, p. 49. 1955: U.S. Department of Commerce, Bureau of the Census, *Annual Report on the Labor Force*, 1955, Series P-50, No. 57, March 1956, table 12, p. 28. 1956: U.S. Department of Commerce, Bureau of the Census, *Annual Report on the Labor Force*, 1956, Series P-50, No. 72, March 1957, table 12, p. 28. 1957-1960: U.S. Department of Labor, *Special Labor Force and Employment in 1960*, by Robert L. Stein and Herman Travis, *Special Labor Force and Employment Report*, No. 14, table C-4, p. A-21, 1961. U.S. Department of Labor, *Fraiser Kellege and Matthew Kessler, Special Employment in 1961*, by Carol Kalish, Frazier Kellege, and Matthew Kessler, *Labor Force Report*, No. 23, table C-4, p. A-30, 1962. U.S. Department of Labor, *Special Labor Force Report*, No. 31, table C-4, p. A-18.

Compiled from various national income publications of the U.S. Department of Commerce, Office of Business Economics. The reported number of full-time equivalent employees, by industry, less those for farms were subtracted from the number of persons engaged in production, by industry, less those for farms.

1940: U.S. Department of Commerce, *Office of Business Economics, National Income, 1954, Edition, A Supplement to the Survey of Current Business*, 1954, table 25, pp. 196 and 197, and table 28, pp. 202 and 203. 1950: 1950, 1953, 1955: U.S. Department of Commerce, *Office of Business Economics, Income and Output, A Supplement to the Survey of Current Business*, 1950, 1953, 1955; U.S. Department of Commerce, *Survey of Current Business*, 1950, 1953, 1955; U.S. Department of Commerce, *Survey of Current Business*, 1956-1958; U.S. Department of Commerce, *Survey of Current Business*, 1956-1958, table VI-15, p. 211, and table VI-16, D. 214. 1956-1958: U.S. Department of Business Economics, *Survey of Current Business*, July 1960, tables 52 and 53. 1959-60: U.S. Department of Business Economics, *Survey of Current Business*, July 1961-1962, U.S. Department of Commerce, *Office of Business Economics, Survey of Current Business*, July 1962, tables 52 and 55, p. 29.

1961-1962: U.S. Department of Business Economics, *Survey of Current Business*, July 1963, tables 52 and 55, p. 33-34.

Part B. Wages

TABLE V-B-1.—*Estimated average annual money earnings of wageworkers in Soviet industry, selected years, 1928-61*

Year	Amount (new rubles)	Index			Year	Amount (new rubles)	Index		
		1928=100	1940=100	1950=100			1928=100	1940=100	1950=100
1928	84	100			1950	925	1,100	208	100
1929	90	107			1953	971	1,150	219	105
1930	100	118			1954	1,010	1,200	227	109
1931	115	136			1955	1,020	1,210	230	110
1932	139	165			1956	1,040	1,230	234	112
1933	161	179			1957	1,100	1,300	247	119
1934	176	209			1958	1,130	1,340	264	122
1935	222	263			1959	1,160	1,380	262	126
1940	443	526	100		1960	1,190	1,410	269	129
1945	616	731	139		1961	1,240	1,470	280	134
1947	825	978	186						

TABLE V-B-2.—Estimated average annual money earnings of wageworkers in Soviet industry by branch of industry, 1928, 1935, 1950, 1956, and 1959

Branch of industry	1928		1935		1950		1956		1959	
	Average earnings in rubles	Percent of the average for all industry	Average earnings in rubles	Percent of the average for all industry	Average earnings in rubles	Percent of the average for all industry	Average earnings in rubles	Percent of the average for all industry	Average earnings in rubles	Percent of the average for all industry
All industry	84.3	100.0	222.4	100.0	925	100.0	1,040	100.0	1,160	100.0
Electric power	105.0	124.5	260.2	117.0	941	101.7	1,031	99.1	n.a.	182.7
Coal	75.9	90.1	255.6	114.9	1,572	10.0	1,656	162.1	2,119	n.a.
Pest.	n.a.	n.a.	n.a.	n.a.	651	70.4	814	78.3	1,205	103.9
Petroleum	94.2	111.7	268.1	120.5	1,113	120.3	1,154	111.0	1,495	128.9
Petrochemicals	89.4	106.0	250.2	112.5	1,266	136.9	1,345	129.3	n.a.	n.a.
Ferrous metallurgy (including ore mining)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1,498	144.0	1,158	99.8
Nonferrous metallurgy	109.5	130.0	257.5	115.8	939	108.0	1,083	104.1	1,075	92.7
Machinery building and metalworking	98.5	116.9	231.3	104.0	935	101.1	1,050	101.0	n.a.	n.a.
Chemicals	n.a.	n.a.	n.a.	n.a.	1,147	124.0	1,178	113.3	n.a.	n.a.
Mining of nonmetallic minerals	n.a.	n.a.	n.a.	n.a.	818	88.4	931	89.5	n.a.	n.a.
Construction materials	n.a.	n.a.	n.a.	n.a.	811	87.7	940	90.4	n.a.	n.a.
Glass, china, and pottery	n.a.	n.a.	n.a.	n.a.	784	81.5	974	93.7	994	85.7
Logging and woodworking	73.2	93.8	192.7	86.7	754	81.5	874	84.0	1,191	102.7
Paper	80.4	96.4	185.9	83.6	967	104.5	1,113	105.0	n.a.	n.a.
Light Textiles	69.3	82.2	184.6	n.a.	811	78.0	865	78.8	914	78.8
Sewing	95.7	113.6	174.5	78.4	791	65.5	865	65.5	763	65.8
Fur, leather, and footwear	103.2	122.4	195.7	88.0	725	78.4	877	82.9	962	82.9
Print	81.2	96.9	172.1	77.4	672	72.7	780	73.8	866	73.8
	108.4	125.6	224.0	100.7	886	95.8	900	95.8	n.a.	n.a.

n.a.—Not available.

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SECTION VI EDUCATION

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Part A. Elementary and secondary education

[NOTE.—Some of the tables contain higher education data]

TABLE VI-A-1.—*Enrollment in schools and training programs of various types at all levels: U.S.S.R., selected years, 1914-15 to 1962-63*

[Thousands of students at beginning of school year]

Schools and training programs	1914-15	1940-41	1952-53	1958-59	1959-60	1960-61	1961-62	1962-63
Total enrollment	10,588	47,547	47,717	46,057	48,741	52,600	56,340	61,268
General education schools of all types	9,656	35,552	32,043	31,483	33,364	36,187	39,087	42,445
Primary, 7-year, 8-year, and complete secondary schools	9,656	34,784	30,953	29,567	31,046	33,417	35,813	38,485
Schools for workers and rural youth and schools for adults (including correspondence study)		768	1,690	1,916	2,318	2,770	3,274	3,960
Trade-technical and factory schools	106	717	774	904	996	1,113	1,266	1,397
Secondary specialized educational institutions ¹	54	975	1,477	1,876	1,908	2,060	2,370	2,668
Higher educational institutions	127	812	1,441	2,179	2,267	2,306	2,640	2,944
Training programs for new trades and raising qualifications in factory and other courses (excluding political education)	645	9,491	11,382	9,615	10,206	10,844	10,977	11,814

¹ These are industrial technicums and other secondary specialized schools, providing vocational-technical training.

TABLE VI-A-2.—*Schools of general education of all types, number of schools, enrollment, and number of teachers: U.S.S.R., 1952-53 and 1958-59 to 1962-63*

[Figures in thousands (at beginning of school year)]

	1952-53	1958-59	1959-60	1960-61	1961-62	1962-63
Schools of general education of all types	217	215	221	224	228	¹ 227
Total enrollment	32,643	31,483	33,364	36,187	39,087	² 42,445
Grades 1-4	13,627	17,779	18,518	18,659	18,962	19,428
Grades 5-7	14,991	8,938	10,439	12,271	13,329	³ 18,234
Grades 8-11	3,900	4,655	4,285	5,121	6,644	⁴ 4,596
Special schools for mentally and physically handicapped children	125	111	122	136	152	187
Teachers	1,583	1,900	1,953	2,043	2,132	2,234

¹ Includes over 25,000 (complete) secondary general education labor-polytechnical schools.

² Includes over 2,000,000 pupils enrolled in boarding schools and extended day schools and groups.

³ In grades 5-8.

⁴ In grades 9-11.

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TABLE VI-A-3.—*Primary, 7-year, 8-year, and complete secondary schools, number of schools, enrollment, and number of teachers: U.S.S.R., 1952-53 and 1958-59 to 1962-63*

[At beginning of school year]

	1952-53	1958-59	1959-60	1960-61	1961-62	1962-63
Total number of schools (thousands) ¹	198.3	199.7	199.3	199.2	198.8	197.6
Primary	115.8	112.4	111.6	110.1	108.0	105.4
7-year	62.0	55.7	54.4	36.4	21.1	
8-year			2.1	22.5	40.5	62.8
Complete secondary	19.7	30.7	30.2	29.2	28.0	28.1
Special schools for mentally and physically handicapped children	.8	.9	1.0	1.0	1.2	1.3
Total enrollment (millions)	30.9	29.6	31.0	33.4	35.8	38.5
Primary	4.5	4.5	4.5	4.4	4.4	
7-year	13.6	8.9	9.3	6.1	3.1	4.3
8-year			.8	5.9	11.2	
Complete secondary	12.7	16.1	16.3	16.9	17.0	16.0
Special schools	.1	.1	.1	.1	.1	.2
Total number of teachers (thousands)	1,531.0	1,813.0	1,855.0	1,933.0	2,024.0	2,119.0

¹ Excluding schools for working and rural youth and schools for adults.

TABLE VI-A-4.—*Higher and secondary specialized educational institutions, number of schools and enrollments by type of instruction: U.S.S.R., 1952-53 and 1958-59 to 1962-63*

	1952-53	1958-59	1959-60	1960-61	1961-62	1962-63
Higher schools:						
Total number	827	766	753	739	731	738
Total enrollments (thousands)	1,441	2,179	2,267	2,396	2,640	2,944
Day division	933	1,180	1,146	1,156	1,204	1,287
Evening division	38	153	196	245	307	374
Correspondence instruction	470	846	925	995	1,129	1,283
Secondary specialized schools:						
Total number	3,604	3,346	3,330	3,323	3,416	3,521
Total enrollments (thousands)	1,477	1,876	1,908	2,060	2,370	2,668
Day division	1,219	1,125	1,067	1,091	1,203	1,310
Evening division	82	303	318	370	431	489
Correspondence instruction	176	448	523	599	736	869

TABLE VI-A-5.—*Enrollment in secondary specialized educational institutions, by groups of specialties; U.S.S.R., 1952-53 and 1958-59 to 1962-63*

[Thousands of students]

Groups of specialties	1952-53	1958-59	1959-60	1960-61	1961-62	1962-63
All specialties, total	1,477.4	1,875.9	1,907.8	2,050.5	2,369.7	2,687.7
Geology and prospecting for mineral resources	19.9	11.1	10.8	11.8	12.5	13.8
Mining of mineral resources	49.0	54.3	47.8	42.6	38.5	35.1
Power engineering	57.6	77.5	84.3	98.4	115.1	130.7
Metallurgy	19.9	24.0	24.3	27.3	30.2	33.1
Machine building and instrument making	155.3	339.7	330.2	348.2	387.8	428.1
Electromechanical, guilding and electro-instrument making	20.8	27.7	33.2	45.5	60.4	78.8
Radiotechnics and communication	40.4	59.3	61.4	71.1	79.5	93.6
Chemical technology	27.2	31.6	34.6	43.5	51.0	58.8
Timber engineering and technology of wood, cellulose, and paper	17.8	20.7	27.3	28.7	30.7	32.8
Technology of food products	23.7	51.6	59.3	66.6	75.6	86.1
Technology of consumer goods	27.7	42.1	51.8	59.7	63.9	71.7
Construction	108.6	161.4	145.6	152.0	165.9	183.8
Geodesy and cartography	5.4	7.3	6.3	6.4	6.2	6.3
Hydrology and meteorology	4.1	6.2	5.9	6.3	6.6	6.9
Agriculture	219.7	293.5	301.3	292.4	314.8	340.9
Transport	52.8	98.8	101.0	112.3	126.8	147.1
Economics	130.8	220.2	236.2	261.5	317.4	371.2
Health and physical culture	153.2	161.6	159.5	176.3	232.0	257.6
Education	303.2	136.5	142.2	154.3	183.6	212.8
Art	25.2	37.3	44.8	54.6	69.4	78.5

TABLE VI-A-6.—*Admissions to secondary specialized educational institutions by type of instruction, and admissions and graduations by branch group of educational institutions: U.S.S.R., 1952, 1958-1962*

[Thousands of students]

	1952	1958	1959	1960	1961	1962
Admissions:						
Type of instruction:						
Day division	412.0	363.7	378.4	415.0	451.3	466.3
Evening division	28.1	75.2	98.7	130.0	139.1	141.4
Correspondence instruction	59.9	145.2	179.1	224.3	280.7	297.9
Branch groups of educational institutions, total	500.0	584.1	650.2	760.3	871.1	905.6
Industry and construction	193.8	221.5	271.2	322.2	347.6	360.0
Transport and communications	35.5	46.6	51.6	60.8	68.4	73.0
Agriculture	85.0	108.4	111.3	120.3	134.7	146.3
Economics and law	35.7	70.3	77.0	92.7	117.2	122.0
Health, physical culture, and sports	58.0	67.5	70.5	85.5	92.3	91.3
Education	84.2	68.5	61.0	72.1	91.4	92.9
Art and cinematography	7.8	11.3	12.7	15.7	19.5	20.1
Branch groups of educational institutions, total	280.6	551.2	527.9	483.5	420.5	452.2
Industry and construction	79.3	219.7	224.3	189.9	170.9	163.6
Transport and communications	14.7	42.2	40.5	38.6	37.1	34.6
Agriculture	47.0	96.3	89.5	80.2	77.7	74.8
Economics and law	23.7	45.2	50.3	56.5	56.2	59.8
Health, physical culture, and sports	41.0	77.2	71.0	64.2	51.3	58.6
Education	70.2	63.4	45.1	48.9	48.6	51.9
Art and cinematography	4.7	7.2	7.2	7.2	7.7	8.9

Source (tables 1-6): Data in the above 6 tables on education are from the following source: *Narodnoe khozjajstvo S.S.S.R. v. 1962 g.*, statisticheskij zhurnal (National Economy of the U.S.S.R. in 1962, statistical yearbook), published by the Central Statistical Administration attached to the U.S.S.R. Council of Ministers, Moscow, 1963.

Part B. Higher Education

[NOTE.—The following education statistics (tables VI-B-1 to VI-B-20) have been updated wherever possible by recent data in official Soviet publications, made available after publication of the U.S. Office of Education Bulletin, 1963, No. 16, *Higher Education in the U.S.S.R.*, in which the translated tables first appeared. Also the State budget expenditure tables contain elementary and secondary education data.]

TABLE VI-B-1.—*Total State budget expenditures, and expenditures for specified education categories: U.S.S.R., 1961-65*

[The Soviet State budget for 1964-65 was announced in the Soviet press in December 1963; although the breakdown of the planned educational expenditures is not complete, available data are presented below, along with data for 1961-63]

Budget category	Billions of rubles				
	1961 (announced December 1960)	1962 (announced December 1961)	1963 (announced December 1962)	1964 (announced December 1963)	1965 (announced December 1963)
Total, State budget expenditures	77.5	80.3	86.1	91.3	100.4
Education, training of cadres, science and culture, total	11.3	12.4	13.8	14.6	15.4
General education	3.5	1 [4.3]	4.0	3 4.3	-----
Preschool institutions (nurseries, kindergartens)	1.2	1.4	1.6	1.7	1.9
Boarding and extended day schools	.6	.6	.7	(3)	-----
Higher educational institutions and technical schools	² 2.2	² 1.8	² 2.7	(4)	(4)
Scientific research and science	3.8	4.3	4.7	5.2	5.4

¹ This figure has been derived as a residual; it may include vocational as well as general education.

² The 1961 figure of 2,200,000,000 rubles includes vocational schools. The 1,800,000,000 figure for 1962 is not announced as including vocational schools. U.S.S.R. Minister of Finance, V. F. Garbuzov, stated (*Izvestia*, Dec. 7, 1961) that expenditures for higher educational institutions and technical schools for 1962 would be 7.9 percent higher than in 1961. The 1963 figure of 2,700,000,000 rubles apparently includes vocational schools.

³ The 1964 general education figure includes boarding schools.

⁴ The 1964 and 1965 figures are reported lumped together as "almost 4,000,000,000 rubles," excluding vocational schools which total "over 1,500,000,000" for the 2 years.

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TABLE VI-B-2.—*Total State budget expenditures and expenditures budgeted for enlightenment: U.S.S.R., 1955 and 1958-62*

[Data for 1955-60 are from *Narodnoe khoziaistvo v 1960 godu* (National Economy in 1960), statistical year-book published by the Central Statistical Administration attached to the U.S.S.R. Council of Ministers, Moscow 1961, I, p. 846-847. The 1961-62 data, from the yearbooks published in 1962 and 1963]

Budget category	Millions of rubles					
	1955	1958	1959	1960	1961	1962
Total State budget expenditures—	54,000 (100%)	64,300 (100%)	70,400 (100%)	73,100 (100%)	76,300 (100%)	82,200 (100%)
Total social-cultural expenditures—	14,717 (27%)	21,418 (33%)	23,118 (33%)	24,987 (34%)	27,187 (36%)	28,067 (36%)
Enlightenment: total (included in preceding line).....	6,894 (13%)	8,603 (13%)	9,412 (13%)	10,323 (14%)	11,349 (15%)	12,435 (15%)
1. General education and education of children and youth, and general adult education, total.....	3,354 361	3,979 525	4,435 600	5,002 697	5,606 824	6,208 1,001
(a) Kindergartens.....						
(b) Children's homes and boarding schools for deaf and blind children.....	286	306	315	305	290	291
(c) General education schools of all types.....	2,520 253	2,779 318	2,998 328	3,262 333	3,590 336	3,913 327
2. Cultural-educational work.....	2,326	2,352	2,389	2,420	2,532	2,723
3. Training cadres, total.....	1,021	1,141	1,152	1,167	1,208	1,286
(a) Higher educational institutions.....						
(b) Technical and schools for training of cadres of secondary qualification.....	592 166	541 187	523 220	527 262	552 312	585 337
(c) Trade and railroad schools.....	90	68	33	24		
(d) Factory schools.....	40	69	73	83	90	91
(e) Technical schools.....						
(f) [Other] factory, trade, and mechanical schools, schools for mechanization of agriculture.....	305 825	230 1,696	277 2,004	236 2,339	252 2,679	325 3,006
4. Science.....	62	88	88	74	75	68
5. Press.....	74	120	122	105	90	92
6. Art and radio.....						

¹ The Russian word "prosveshchenie" is translated here as "enlightenment." Soviet sources translate it as "education," leading to a conceptual error and overstatement of the total education budget."

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TABLE VI-B-3.—Number of specialists with higher education working in the national economy, by specialty; U.S.S.R., selected years, 1928-60

The 20 tables of statistics which follow have been selected and translated from Vysshee obrazovaniye v SSSR (Higher Education in the U.S.S.R.), a statistical compilation prepared and published in 1961 by the Central Statistical Administration, attached to the U.S.S.R. Council of Ministers, Moscow. Statistics are for the beginning of the school year, unless otherwise indicated.

Additional statistics for the 1961-62 and 1962-63 school years have been added to a number of the tables. The source for these statistics is the 1962 and 1963 publications of the Central Statistical Administration, Narodnoe khoziaistvo SSSR (National Economy of the U.S.S.R.) in 1961 and in 1962.

[Figures in parentheses are percent of total]

	Thousands of specialists									
	1928	Jan. 1, 1941	Jan. 1, 1946	July 1, 1950	Apr. 1, 1954	July 1, 1955	Dec. 1, 1957	Dec. 1, 1959	Dec. 1, 1960	
Total specialists with higher education working in the national economy-----	233.0 (100)	309.0 (100)	896.9 (100)	1,442.8 (100)	2,008.5 (100)	2,184.0 (100)	2,805.5 (100)	3,235.7 (100)	3,545.2 (100)	
Engineers-----	47.0 (20.2)	289.9 (31.9)	277.5 (30.9)	392.4 (27.2)	530.2 (26.4)	585.9 (26.8)	816.1 (29.1)	986.6 (30.5)	1,115.5 (31.5)	
Agronomists, zootechnicians, veterinarians, and foresters-----	28.0 (12.0)	69.6 (7.7)	59.4 (6.6)	109.5 (7.6)	134.5 (6.7)	158.7 (7.3)	193.1 (6.9)	222.4 (6.9)	241.8 (6.8)	
Economists, economist-statisticians-----	13.0 (5.6)	57.0 (6.2)	48.3 (5.4)	72.8 (5.1)	96.0 (4.8)	105.2 (4.8)	145.2 (5.2)	177.6 (5.5)	197.7 (5.6)	
Commodities experts-----		2.3 (.3)	1.8 (.2)	4.7 (.3)	7.8 (.4)	8.6 (.4)	12.3 (.4)	16.3 (.5)	19.3 (.5)	
Lawyers-----	13.0 (5.6)	20.9 (2.3)	15.6 (1.7)	25.1 (1.7)	40.7 (2.0)	47.1 (2.2)	57.8 (2.1)	65.5 (2.0)	69.8 (2.0)	
Doctors (excluding dentists)-----	63.2 (27.0)	141.8 (15.6)	126.2 (14.1)	232.4 (16.1)	280.4 (14.0)	299.0 (13.7)	346.0 (12.3)	378.6 (11.7)	400.6 (11.3)	
Teachers, and university graduate librarians and cultural-educational workers-----	59.0 (25.3)	300.4 (33.1)	333.3 (37.2)	556.7 (38.6)	867.8 (43.2)	906.4 (40.5)	1,144.9 (40.8)	1,278.9 (39.5)	1,378.1 (38.9)	

TABLE VI-B-4.—Number and percent of women specialists with higher education working in national economy, by specialty: U.S.S.R., 1941, 1954, and 1960

Specialties	Thousands of women			Women as percent of total specialists	
	Jan. 1, 1941	Apr. 1, 1954	Dec. 1, 1960	Jan. 1, 1941	Dec. 1, 1960
Total women specialists with higher education working in national economy-----	312.3	1,098.3	1,864.6	34	53
Engineers-----	43.2	151.5	320.1	15	29
Agronomists, zootechnicians, veterinarians, and foresters-----	17.6	54.9	94.5	25	39
Economists, economist-statisticians, commodities experts-----	18.1	56.3	112.7	31	57
Lawyers-----	8.1	13.0	22.3	15	32
Doctors (excluding dentists)-----	85.4	214.3	302.0	60	75
Teachers, university graduate librarians, and cultural-educational workers-----	144.5	581.0	901.3	49	65

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TABLE VI-B-5.—Number of higher educational institutions and enrollment:
 U.S.S.R., 1914-15 and 1922-23 to 1962-63

School year	Number of educational institutions	Thousands of students	School year	Number of educational institutions	Thousands of students
1914-15 (current boundaries).	105	127.4	1950-51	880	1,247.4
1922-23	248	216.7	1951-52	887	1,336.1
1923-24	187	208.3	1952-53	827	1,441.5
1924-25	169	169.5	1953-54	818	1,562.0
1925-26	145	167.0	1954-55	798	1,730.5
1926-27	148	168.0	1955-56	765	1,867.0
1927-28	148	168.5	1956-57	767	2,001.0
1928-29	152	176.6	1957-58	763	2,099.1
1929-30	190	204.2	1958-59	766	2,178.9
1930-31	579	287.9	1959-60	753	2,267.0
1931-32	701	405.9	1960-61	730	2,395.5
1932-33	832	501.4	1961-62	731	2,610.0
1933-34	714	458.3	1962-63	738	2,944.0
1934-35	688	527.3			
1935-36	718	563.5			
1936-37	700	542.0			
1937-38	683	547.2			
1938-39	708	602.9	1914-15	(7 times)	(19 times)
1939-40	750	619.9	1927-28	(5 times)	(14 times)
1940-41	817	811.7	1932-33	89	(3 times)
1941-42	789	730.2	1940-41	90	295
1942-43	805	871.7	1950-51	84	192
1943-44	807	903.6	1955-60	97	128
1944-45	823	1,032.1	1958-59	96	110
1945-46	804	1,132.1			

TABLE VI-B-6.—Enrollment in higher education, by type of instruction: U.S.S.R., 1940-63

School year	Thousands of students			
	Total	In day divisions	In evening divisions	In correspondence
1940-41	811.7	558.1	26.9	226.7
1945-46	730.2	625.2	14.0	191.0
1946-47	871.7	636.2	13.3	222.2
1947-48	963.6	690.4	15.2	258.0
1948-49	1,032.1	716.0	18.4	297.7
1949-50	1,132.1	755.9	22.3	353.9
1950-51	1,247.4	817.9	27.2	402.3
1951-52	1,356.1	836.1	32.1	437.9
1952-53	1,441.5	933.6	37.9	470.0
1953-54	1,562.0	994.4	48.3	519.3
1954-55	1,730.5	1,084.1	62.4	584.0
1955-56	1,867.0	1,147.0	80.9	639.1
1956-57	2,001.0	1,177.1	100.8	723.1
1957-58	2,639.1	1,193.1	127.2	778.8
1958-59	2,178.9	1,179.6	153.3	846.0
1959-60	2,267.0	1,145.8	195.8	925.4
1960-61	2,395.5	1,155.5	244.9	995.1
1961-62	2,640.4	1,204.0	307.0	1,129.0
1962-63	2,944.0	1,257.0	374.0	1,283.0

1960-61 as a percent (or multiple) of—				
1940-41	295	207	(9 times)	439
1945-46	328	220	(17 times)	(5 times)
1950-51	192	141	(9 times)	247
1955-56	128	101	303	156
1958-59	110	98	160	118

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TABLE VI-B-7.—Number of higher educational institutions and enrollment, by branch groups of institutions: U.S.S.R., selected years, 1914-61

Branch group of institutions	1914-15	1940-41	1945-46	1950-51	1955-56	1959-60	1960-61
Number of institutions							
All institutions, total	105	817	789	880	765	753	739
Industry and construction							
Transport and communications	18	{ 136 28	148 28	147 35	165 38	164 38	169 37
Agriculture	14	91	92	94	99	100	96
Economics and law	15	47	44	47	39	58	51
Health, physical culture, and sport	6	78	80	89	94	98	98
Education	52	{ 407 30	349 48	417 51	286 45	248 47	241 47
Art and cinematography							
Enrollment in thousands							
All institutions, total	127.4	811.7	730.2	1,247.4	1,867.0	2,267.0	2,395.5
Industry and construction							
Transport and communications	24.9	{ 168.4 36.2	158.0 29.3	272.8 47.9	550.6 99.0	768.1 145.1	872.6 146.7
Agriculture	4.6	52.1	49.8	104.1	195.9	261.4	246.4
Economics and law	11.4	36.3	44.5	80.2	106.7	153.9	161.9
Health, physical culture, and sport	5.0	109.8	115.6	111.5	158.8	184.4	188.9
Education	81.5	{ 398.6 10.3	321.9 11.1	607.0 14.9	741.6 14.4	737.2 16.9	759.6 19.4
Art and cinematography							

TABLE VI-B-8.—Enrollment in higher education, by groups of specialties: U.S.S.R., selected years, 1950-63

Groups of specialties	Thousands of students				(1960-61 as percent of—)		1961-62 (rounded)	1962-63 (rounded)
	1950-51	1955-56	1959-60	1960-61	1950-51	1955-56		
All specialties, total	1,247,382	1,866,904	2,266,879	2,305,545	102	128	2,639,900	2,943,700
Geology and prospecting for mineral resources	16,251	32,259	21,820	21,276	131	66	22,100	23,000
Mining of mineral resources	20,860	36,471	30,924	30,248	145	83	32,100	31,600
Power engineering	23,840	52,493	68,683	74,608	313	142	78,400	71,800
Metallurgy	14,708	24,713	29,323	31,500	214	127	33,400	34,500
Machine building and instrument making	86,332	172,634	270,116	302,684	351	175	344,300	376,400
Electro-machine building and electro-instrument making	14,156	36,250	69,988	91,330	(1)	252	121,600	175,100
Radiotechnics and communication	16,630	39,795	65,025	78,228	(2)	197	90,000	112,700
Chemical technology	23,906	37,610	47,280	56,194	235	149	60,900	66,200
Timber engineering and technology of wood, cellulose, and paper	8,659	20,499	22,277	22,863	264	112	24,300	25,700
Technology of food products	10,049	18,165	27,195	31,349	312	173	36,200	41,300
Technology of consumer goods	9,464	20,144	26,645	28,821	305	143	32,000	35,000
Construction	37,092	98,202	135,116	147,024	306	158	164,400	180,800
Geodesy and cartography	2,793	3,507	5,354	5,870	210	187	6,500	6,700
Hydrology and meteorology	2,848	4,123	4,583	5,158	181	125	5,500	5,900
Agriculture and forestry	107,682	191,738	254,168	236,008	219	123	253,300	273,700
Transport (exploitation)	23,741	36,628	58,319	66,617	276	179	73,500	81,700
Economics	72,591	131,461	198,413	217,674	300	166	248,900	277,300
Law	45,383	38,903	38,820	40,301	89	104	43,400	46,800
Health and physical culture	113,300	156,711	186,249	189,161	167	113	197,000	206,300
Specialties in universities and library institutes	87,452	126,638	176,962	186,953	214	143	200,100	216,800
Art	496,283	576,278	612,515	612,803	103	89	552,000	624,600
	14,362	13,894	17,224	19,375	138	143	23,000	27,000

¹ 6 times.

² 5 times.

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TABLE VI-B-9.—*Enrollment in engineering, by engineering specialty: U.S.S.R., selected years, 1950-61*

Groups of specialties	1950-51	1955-56	1959-60	1960-61	1960-61 as percent of—	
					1950-51	1955-56
Total, all engineering specialties	346,424	700,083	977,705	1,080,535	312	154
Geology and prospecting for mineral resources	16,251	32,269	21,820	21,276	131	66
Mining of mineral resources	20,860	36,471	30,924	30,248	145	83
Power engineering	23,840	52,049	68,668	74,608	313	142
Metallurgy	14,708	24,713	29,328	31,500	214	127
Machine building and instrument making	86,332	172,534	270,116	302,684	351	175
Electro-machine building and electro-instrument making	14,156	36,250	69,988	91,330	(1)	252
Radiotechnics and communications	16,630	39,795	65,025	78,228	(2)	107
Chemical technology	23,906	37,610	47,280	56,194	235	149
Timber engineering and technology of wood, cellulose, and paper	8,659	20,400	22,277	22,863	264	112
Technology of food products	10,049	18,165	27,195	31,349	312	173
Technology of consumer goods	9,464	20,144	26,645	28,821	305	143
Construction	37,092	93,202	135,116	147,024	306	158
Geodesy and cartography	2,793	3,507	5,354	5,870	210	167
Hydrology and meteorology	2,848	4,123	4,583	5,158	181	125
Specialties in agriculture and forestry:						
Organization of land exploitation	2,754	5,043	4,960	4,200	153	83
Agricultural mechanization	12,756	36,540	60,991	56,945	446	156
Agricultural electrification	3,388	6,120	7,880	6,705	198	110
Irrigation	5,117	10,281	7,071	7,009	187	68
Forestry	12,080	14,606	13,725	12,898	107	88
Transport (exploitation)	23,741	36,628	58,319	65,617	276	170

¹ 6 times.

² 5 times.

TABLE VI-B-10.—*Women students as percent of total enrollment in higher education, by main areas: U.S.S.R., selected years, 1927-63*

Main area	1927-28	1940-41	1945-46	1950-51	1955-56	1960-61	1961-62	1962-63
Number of women students (in thousands)	(47)	(471)	(562)	(661)	(971)	(1,042)	(1,109)	(1,236)
Women as percent of total enrollment	28	58	77	53	52	43	42	42
Women as percent of total students in:								
Industry, construction, transport, and communications	13	40	60	30	35	30	28	28
Agriculture	17	48	79	39	39	27	26	25
Economics and law	21	64	77	57	67	49		
Health, physical culture, and sport	52	74	90	65	69	56	55	54
Education, art, and cinematography	49	66	84	71	71	63	62	62

TABLE VI-B-11.—*Number and percent of women students in higher education, by type of instruction: U.S.S.R., 1960-61*

Type of instruction	Thousands of students		Women as percent of total students
	Both sexes	Women	
Total	2,395,545	1,041,645	43
Day divisions	1,155,554	520,758	45
Evening division	244,894	95,780	39
Correspondence instruction	995,097	425,107	43

TABLE VI-B-12.—*Admissions to higher educational institutions, by type of instruction: U.S.S.R., 1940-41, and 1945-46 to 1962-63*

Year	Thousands of students			
	Total	Day division	Evening division	Correspondence instruction
1940-41	263.4	154.9	6.6	101.9
1945-46	285.7	171.6	4.9	109.2
1946-47	327.2	201.6	4.4	121.2
1947-48	281.1	189.5	4.7	86.9
1948-49	291.8	187.2	6.4	98.2
1949-50	324.3	203.3	6.9	114.1
1950-51	340.1	228.4	9.1	111.6
1951-52	374.4	245.2	10.3	118.9
1952-53	287.3	249.0	11.8	126.5
1953-54	430.8	265.1	16.6	149.1
1954-55	469.0	276.2	22.9	169.9
1955-56	461.4	257.2	28.4	175.8
1956-57	458.7	231.2	32.6	194.9
1957-58	438.3	219.7	34.7	183.9
1958-59	455.9	215.5	42.2	198.2
1959-60	511.7	227.1	53.5	221.1
1960-61	693.1	257.9	77.0	258.2
1961-62	669.9	270.4	93.1	294.4
1962-63	727.5	312.1	102.3	313.1
1960-61 as a percent (or multiple) of—				
1940-41	225	166	(12 times)	253
1950-51	170	113	(8 times)	281
1955-56	129	110	271	147
1959-60	116	114	121	117

TABLE VI-B-13.—*Number and percent of admissions to higher educational institutions by branch group of institutions: U.S.S.R., selected years, 1940 to 1963*

Branch group	1940-41	1945-46	1950-51	1955-56	1959-60	1960-61	1961-62	1962-63
	Admissions in thousands							
Total admissions								
Total	363.4	285.7	340.1	461.4	511.7	593.1	666.9	727.5
Industry and construction	45.4	52.5	74.0	144.8	185.6	225.1	245.8	270.8
Transport and communications	8.3	9.5	12.0	20.8	32.2	34.1	37.6	40.0
Agriculture	11.9	17.9	28.5	51.1	57.3	62.7	71.9	81.3
Economics and law	12.6	20.3	25.5	28.5	40.1	43.9	50.7	47.3
Health, physical culture, and sport	23.0	26.7	23.7	32.3	33.2	36.8	38.9	40.8
Education	59.0	155.0	182.6	172.0	159.0	185.2	216.0	241.0
Art and cinematography	2.2	3.8	2.8	2.9	4.3	5.3	6.0	6.3
Percent of total								
Total	100	100	100	100	100	100	100	100
Industry and construction	17.2	18.4	21.2	31.4	36.3	38.0	36.9	37.2
Transport and communications	3.2	3.3	3.4	6.4	6.3	5.7	5.6	5.5
Agriculture	4.5	6.3	8.2	11.1	11.2	10.6	10.8	11.2
Economics and law	5.2	7.1	7.3	6.2	7.8	7.4	7.6	6.5
Health, physical culture, and sport	8.7	9.3	6.8	7.0	6.5	6.2	5.8	5.6
Education	60.4	54.3	52.3	37.3	31.1	31.2	32.4	33.1
Art and cinematography	.8	1.3	.8	.6	.8	.9	.9	.9

TABLE VI-B-14.—Number and percent of graduations of specialists from higher educational institutions, by branch group: U.S.S.R., selected years, 1940–62

Branch group	1940	1945	1950	1955	1959	1960	1961	1962
Graduations in thousands								
Total graduations.....	126.1	54.6	176.9	245.8	338.0	342.1	325.5	316.6
Industry and construction.....	24.2	8.5	30.0	56.4	92.3	95.0	97.1	99.7
Transport and communications.....	5.9	1.6	6.1	9.5	10.3	16.1	17.0	15.9
Agriculture.....	10.3	2.9	12.7	24.1	34.5	34.7	31.8	30.8
Economics and law.....	5.7	2.4	11.4	15.6	25.0	24.7	24.7	24.1
Health, physical culture, and sport.....	17.4	6.6	20.0	16.9	29.5	30.0	30.6	30.3
Education.....	61.6	32.0	94.1	120.8	138.0	139.1	121.8	113.2
Art and cinematography.....	1.0	.6	2.6	2.5	2.4	2.5	2.5	2.6
Percent of total								
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Industry and construction.....	19.2	15.5	17.0	23.0	27.3	27.8	29.9	31.5
Transport and communications.....	4.7	3.1	3.4	3.8	4.8	4.7	5.3	5.0
Agriculture.....	8.2	5.3	7.2	9.8	10.2	10.1	9.5	9.7
Economics and law.....	4.5	4.4	6.4	6.4	7.6	7.2	7.6	7.6
Health, physical culture, and sport.....	13.8	12.0	11.3	6.8	8.7	8.8	9.4	9.6
Education.....	48.9	58.6	53.2	49.2	40.8	40.7	37.5	35.8
Art and cinematography.....	.7	1.1	1.5	1.0	.7	.7	.8	.8

TABLE VI-B-15.—Graduations of specialists from higher educational institutions by groups of specialties: U.S.S.R., selected years, 1950–62

Group of specialties	Number of specialties				1960 as percent of—		1961 (rounded)	1962 (rounded)
	1950	1955	1959	1960	1950	1955		
					1950	1955		
Total.....	176,869	245,846	337,909	342,050	193	139	325,500	316,600
Geology and prospecting for mineral resources.....	1,721	3,976	5,351	3,808	226	98	3,500	2,900
Mining of mineral resources.....	1,353	5,290	6,230	5,246	388	99	4,600	4,000
Power engineering.....	2,380	4,957	8,441	8,425	354	170	8,400	7,300
Metallurgy.....	1,416	2,656	4,005	3,884	274	146	3,900	3,800
Machine building and instrument making.....	9,101	15,736	28,349	30,408	334	193	32,400	34,100
Electro-machine building and electro-instrument making.....	1,433	2,981	6,833	8,138	(1)	273	8,500	11,000
Radiotechnics and communications.....	1,427	2,950	6,074	6,299	441	214	7,200	8,100
Chemical technology.....	2,580	4,954	5,404	5,702	220	115	5,600	6,000
Timber engineering and technology of wood, cellulose, and paper.....	727	1,885	3,497	3,724	(2)	198	3,100	2,700
Technology of food products.....	2,295	1,878	3,094	3,390	148	181	3,600	3,400
Technology of consumer goods.....	1,240	1,669	3,068	3,100	251	186	3,300	3,300
Construction.....	4,873	9,440	17,335	17,760	364	188	17,900	17,600
Geodesy and cartography.....	294	540	466	612	208	113	500	700
Hydrology and meteorology.....	379	628	657	685	176	106	700	700
Agriculture and forestry.....	12,850	24,563	33,908	34,391	267	140	31,500	30,600
Transport (exploitation).....	3,059	4,236	6,275	6,620	216	156	6,900	4,600
Economics.....	10,103	16,138	30,718	30,415	301	188	31,700	30,300
Law.....	5,648	8,126	6,263	6,016	107	74	5,600	5,100
Health and physical culture.....	20,747	16,943	20,803	29,953	144	177	30,800	30,600
Specialties in universities.....	12,823	15,560	30,200	29,876	242	192	28,400	25,900
Specialties in pedagogical and library institutes.....	78,529	98,249	99,656	101,003	129	103	84,800	79,100
Art.....	2,376	2,401	2,342	2,507	106	101	2,600	2,800

¹ 6 times.

² 5 times.

TABLE VI-B-16.—*Graduations of engineers from higher educational institutions, by groups of specialties: U.S.S.R., selected years, 1950-60*

Groups of specialties	Number of engineers ¹			1960 as percent of—	
	1950	1955	1950	1950	1955
Total by engineering specialties.....	37,343	74,569	117,543	120,132	321
Geology and prospecting for mineral resources.....	1,721	3,976	5,351	3,898	226
Mining of mineral resources.....	1,353	5,200	6,230	5,246	388
Power engineering.....	2,380	4,957	8,441	8,425	354
Metallurgy.....	1,416	2,656	4,006	3,884	274
Machine building and instrument making.....	9,101	15,736	28,349	30,408	334
Electro-machine building and electro-instrument making.....	1,433	2,981	6,833	8,138	(6 times) 273
Radio-technics and communications.....	1,427	2,950	6,074	6,299	441
Chemical technology.....	2,586	4,954	5,404	5,702	220
Timber engineering and technology of wood cellulose and paper.....	727	1,885	3,497	3,724	(5 times) 198
Technology of food products.....	2,295	1,878	3,094	3,396	148
Technology of consumer goods.....	1,240	1,669	3,068	3,109	251
Construction.....	4,873	9,440	17,335	17,760	364
Geodesy and cartography.....	294	540	466	612	208
Hydrology and meteorology.....	379	628	657	668	176
Specialties in group "agriculture and forestry":					106
Organization of land exploitation.....	202	511	893	826	409
Agricultural mechanization.....	1,033	5,068	6,631	6,742	(7 times) 162
Agricultural electrification.....	152	887	1,044	1,021	(7 times) 133
Irrigation.....	311	1,576	1,512	1,330	428
Forestry.....	1,452	2,751	2,384	2,324	160
Transport (exploitation).....	3,059	4,326	6,275	6,620	216

¹ The total number of engineers graduating in 1961 was 122,000, and in 1962 was 123,000 (rounded).

TABLE VI-B-17.—*Number of universities and enrollments: U.S.S.R., selected years, 1940-61*

Years	Number of universities	Number of students
1940-41.....	29	75,682
1950-51.....	33	109,737
1955-56.....	33	106,266
1959-60.....	40	223,441
1960-61.....	40	248,062

TABLE VI-B-18.—*Number of admissions and graduations in universities: U.S.S.R., selected years, 1940-60*

Years	Number of students	
	Admissions of freshmen	Graduations
1940.....	23,334	7,963
1950.....	27,127	15,626
1955.....	36,690	22,866
1959.....	52,904	39,064
1960.....	65,590	38,354

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TABLE VI-B-19.—*Enrollments of aspirants (graduate students), by type of instruction: U.S.S.R., selected years, 1940-62*

Type of instruction	Number of aspirants				1960 as percent (or multiple of)—			1961	1962
	1940	1950	1955	1960	1940	1950	1955		
Total	16,863	21,995	29,362	36,754	218	168	126	47,560	61,809
In higher educational institutions									
Training with interruption from production (full time)	13,160	12,487	16,774	20,406	155	163	122	27,066	36,334
Training without interruption from production (part time)	11,506	11,199	13,212	13,463	177	120	102	17,367	23,130
In scientific organizations									
Training with interruption from production (full time)	1,663	1,288	3,562	6,943	(4.2 times)	(5.4 times)	195	9,699	13,204
Training without interruption from production (part time)	3,694	9,418	12,588	16,348	(4.4 times)	174	130	20,494	25,475
Total	2,919	6,944	8,145	9,515	(3.3 times)	137	117	11,308	13,584
Training without interruption from production (part time)	775	2,474	4,443	6,833	(8.8 times)	276	154	9,186	11,801

TABLE VI-B-20.—*Number of admissions to aspirantura (graduate study) by type of instruction: U.S.S.R., selected years, 1940-60*

Type of instruction	1940				1960 as percent (or multiple of)—			1950	1955
	Number of admissions				1940	1950	1955		
Total	3,530	7,717	7,387	14,309	(4.1 times)			187	195
In higher educational institutions									
With interruption from production	2,708	4,783	4,193	8,271	299			173	197
Without interruption from production	2,223	4,253	3,225	5,374	242			126	167
In scientific organizations									
With interruption from production	545	530	968	2,897	(5.3 times)			299	
Without interruption from production	762	2,934	3,174	6,128	(8 times)			209	193
Total	559	2,124	2,159	3,641	(6.5 times)			171	169
Training without interruption from production	203	810	1,015	2,487	(12.3 times)			(3.1 times)	245

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TABLE VI-B-21.—*Number of graduations of aspirants (graduate students) by type of instruction: U.S.S.R., selected years, 1940-61*

Years	Total	Number of graduations by type of instruction			
		In higher educational institutions		In scientific organization	
		With interruption from production	Without interruption from production	With interruption from production	Without interruption from production
1940	1,978	1,411	61	454	52
1945	1,366	1,002	108	129	37
1946-50	16,295	10,087	733	4,767	708
1951-55	31,475	18,128	1,371	9,887	2,089
1956	8,453	4,805	496	2,408	744
1957	8,250	4,288	653	2,523	786
1958	6,802	3,119	707	2,053	923
1959	5,603	2,585	745	1,504	769
1960	5,517	2,407	613	1,718	779
1961	6,921	3,145	650	2,262	864

TABLE VI-B-22.—*Enrollment of aspirants (graduate students) by branches of study: U.S.S.R., 1950, 1960-62 (at end of year)*

Branch of study	1950		1960		1960 as percent (or multiple) of 1950		1961	1962	
	Number of aspirants	Number in higher educational institutions	Number of aspirants	Number in higher educational institutions	Number of aspirants	Number in higher educational institutions	Number of aspirants	Percent of total	
Total	21,965	12,487	26,754	20,406	168	163	47,500	61,809	100
Physico-mathematics	972	618	3,435	2,726	(3.5 times)	(4.4 times)	4,887	6,345	10.3
Chemistry	1,319	667	2,402	1,296		182	194	3,001	3,586
Biology	1,247	611	1,877	732		151	120	2,396	3,821
Geology-mineralogy	503	233	1,313	533		261	220	1,659	2,273
Technical	6,819	2,854	13,936	6,720		240	235	17,630	22,433
Agriculture and veterinary	2,165	835	2,877	1,077		133	120	3,953	4,786
History and philosophy	2,607	1,745	1,726	1,184		66	68	2,194	3,020
Economics	1,366	1,014	2,770	1,661		203	164	3,504	4,627
Philology	1,980	1,457	1,471	1,067		74	73	1,830	2,463
Geography	328	190	402	264		123	134	505	731
Law	718	489	402	280		54	57	497	707
Pedagogy	862	568	956	691		111	122	1,291	1,832
Medicine and pharmacy	1,386	882	2,585	1,846		187	214	3,441	4,057
Art	459	290	448	314		98	108	598	785
Architecture	151	54	148	25		96	46	174	353

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SECTION VII
TRANSPORTATION

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TABLE VII-1.—*Growth of freight traffic in the U.S.S.R., by type of carrier, 1955, and 1958-62*

	Billion ton-kilometers ¹						
	All carriers	Railroads	Motor transport	Pipelines	Inland water	Maritime	Air
1955	1,165.0	970.9	42.5	14.7	67.7	88.9	0.252
1958	1,604.8	1,302.0	70.8	33.8	85.5	106.3	.399
1959	1,708.4	1,429.5	87.6	41.6	93.6	115.7	.439
1960	1,885.7	1,504.3	98.5	51.2	99.6	131.5	.563
1961	1,998.2	1,566.6	105.7	60.0	106.0	159.1	.802
1962	2,116.9	1,646.3	111.9	74.5	109.9	173.4	.89
Index (1955=100)							
1955	100	100	100	100	100	100	100
1958	138	134	181	230	126	154	158
1959	152	147	206	233	138	168	174
1960	162	155	232	348	147	191	223
1961	172	161	249	408	157	231	318
1962	182	170	263	507	162	252	355

¹ All data are from official Soviet statistics. (U.S.S.R., Central Statistical Administration, "Narodnoye khozyaystvo SSSR v 1962 godu," statisticheskiy yezhegodnik," Moscow 1963, p. 379; "Narodnoye khozyaystvo SSSR v 1961 godu" Moscow, 1962, p. 519; and "Narodnoye khozyaystvo SSSR v 1960 godu" Moscow, 1961, p. 574.)

TABLE VII-2.—*Value and volume indexes of the growth of total freight traffic in the U.S.S.R., 1955, and 1958-62*

	Value ¹		Volume	
	Million rubles	Index (1955=100)	Billion ton-kilometers	Index (1955=100)
1955	8,628	100	1,165.0	100
1958	13,370	155	1,604.8	138
1959	14,972	174	1,708.4	152
1960	16,379	190	1,885.7	162
1961	17,462	202	1,998.2	172
1962	18,468	214	2,116.9	182

¹ Expressed in terms of new rubles at 1955 prices. Sum of the value of production for each carrier. This was obtained by multiplying ton-kilometers by estimated average revenue for 1955 (new kopeks per ton-kilometer) as follows:

Railroads 0.448 (1).

Motor transport 8.78. Calculated from the rate per ton for class 2 freight (presumed typical) at the average haul distance in 1955, according to rates established July 1, 1955 (2).

Pipelines 0.20. Estimated same as cost per ton-kilometer, which was calculated from ton-kilometers and total costs (3).

Inland water 0.387. Cost plus profit (4).

Maritime 0.297. Estimated same as cost per ton (5).

Air 20.

SOURCE REFERENCES

(1) Minsker, S. S., compiler. "Razvitiye zhelznodorozhnoy transporta v semiletii, sbornik statey," Moscow, 1960, p. 320.

(2) U.S.S.R., Ministry of Automobile Transport and Highways. "Spravochnik yedinykh tarifov na perevozku gruzov avtomobil'nym transportom," Moscow, 1955, p. 5.

(3) Akademiya Nauk SSSR, Institut Kompleksnykh Transportnykh Problem. "Transportnyye izdernzhki v narodnom khozyaystve SSSR," Moscow, 1955, p. 34.

(4) U.S.S.R., Central Statistical Administration. "Transport i svyaz" SSSR, statisticheskiy sbornik," Moscow, 1957, p. 24. "Technoy transport," No. 2, 1957, p. 7.

(5) U.S.S.R., Central Statistical Administration. "Transport i svyaz" SSSR, statisticheskiy sbornik," Moscow, 1957, p. 24.

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SECTION VIII

NATIONAL INCOME ACCOUNTS

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EXPLANATION OF TABLES RELATING TO NATIONAL INCOME ACCOUNTS*

The Soviet Union appears to have entered upon a period of secular deceleration in its growth following 1958 (table VIII-1). In the period 1950-58 its national product rose by an annual average of 6.8 percent, second only to West Germany among the major industrial economies. In no year since 1958 has this rate been attained and the average for the past 4 years has been only 4.6 percent, below the growth of Japan, Italy, and West Germany, and equal to that of France. Even if the unfavorable year of 1958 for the market economies be omitted from the comparison, the secular deceleration in growth has been far sharper for the U.S.S.R. than for other major economies. On a per capita basis the performance of the Soviet economy is even less favorable, in recent years being below Japan and the large continental economies.

The reduced pace of Soviet growth can be explained in part by examining the performance of the three sectors which originate over 80 percent of GNP—industry, agriculture, and services (table VIII-2). During the 1958-62 period industrial output was increasing by somewhat more than 7 percent per year compared with over 10 percent for the preceding 8 years. Agricultural production has nearly stagnated compared to an annual growth of over 5 percent in the previous period. The services have moved contrary to the general trend, rising over 4 percent a year compared with only about 1 percent for the earlier years. What decline has occurred in military services has been more than offset by accelerations in educational, medical, housing, and especially scientific services.

If provisional information for 1963 is introduced, an even slower growth than for 1962 appears. The record of the past 2 years is below the long-term trend as it is heavily influenced by two disastrous agricultural years in succession. If weather factors are discounted and it is assumed that the agricultural growth trend for 1958-61 would have prevailed under normal conditions, the growth of Soviet GNP would have been close to 5.0 percent. Even this normalized rate, however, still represents a substantial decline over the performance of the early and middle 1950's.

Part of the explanation for the decline in the rate of growth lies in a less favorable manpower situation, the rate of increase in employment having declined to 1.3 from 1.7 percent, but more striking has been the declining rate of productivity advancement, even if cyclical weather influences are removed. In this respect, too, the reduction in the Soviet rate of increase is the largest of the seven economies (table VIII-3).

There has been a noticeable decline in the rate of increase in per capita consumption, largely the result of the stagnation in farm output (table VIII-4) and to a lesser extent because of the decline in new housing construction. During the 1958-62 period the rate of growth was less than that for German and Italian and about equal to French consumers, all of whom enjoy considerably higher real living standards (see table VIII-5) than their Soviet counterparts. The rate of increase in investment also fell significantly contrary to the experience of

*A considerable portion of the methodology and data included in this section was originally presented in the author's contribution to the 1962 compendium of the committee, "Dimensions of Soviet Economic Power," pp. 67-90.

the other major economies. During the past 3 years the rate has averaged little better than 5.0 percent. Of equal importance is the sharply reduced return on investment. In the earlier period the Soviet Union obtained about the same increase in output per employee from a unit of nonhousing investment as did France and Germany, though less than that of Japan. Since 1958 the productivity of investment has been much less, in fact, the lowest (highest marginal capital-output ratio) of all major economies except the United Kingdom. This decline might be explained by a shift of investment from industry and agriculture into the service sectors (education, health, municipal facilities, science, etc.) with their slow payoffs and within industry out of coal, electric power, and machinery into the unfamiliar chemical technology.

In 1962 the U.S.S.R. was the world's second largest economy with a GNP approximately 46 percent the size of the United States and approximately equal to that of the principal Common Market economies combined (table VIII-5). In per capita terms its relative position is less favorable—about three-eighths of the United States, more than a third below France, Germany, and the United Kingdom, about equal to Italy, and a third higher than Japan. Soviet allocation priorities are graphically illustrated by relative per capita consumption levels. With unmeasured Japan excluded, Soviet consumption levels are only a quarter of those of the United States, half those of France, Germany, and the United Kingdom, and about 80 percent of Italy's. As would be expected in an economy in which growth is part of the ideology, the investment position of the U.S.S.R. is more favorable—about three-fourths of the U.S. level and above that of the major Western European market economies other than Germany. The really striking Soviet resource priority is found in defense. Its per capita level is two-thirds as high as that of the United States and about double the average for France, Germany, and Italy.

Soviet resource priorities are also emphasized in comparisons of industrial output (table VIII-6). Soviet industrial production (value added) in 1962 bears about the same ratio to U.S. output as does GNP, about 48 percent. While total output is approximately double the level of the nearest West European producer, the United Kingdom, its industrial output per employee is about equal to that of the three leading West European economies and about a third of the U.S. level. In per capita terms (a rough indicator of the degree of industrialization) its position is lower than that of the three largest West European economies.

The projections for the OECD countries and Japan are the official national target estimates submitted to the OECD within its overall growth rate of 4.5 percent per annum and the official Japanese plan goal (table VIII-7). Japan and the continental economies in the first 3 years of the decade have either exceeded or nearly matched targeted growth rates. Given prospective labor force increments and productivity advances they should be able to achieve their growth goals. The United Kingdom has lagged in its growth performance. However, the establishment of comprehensive national planning under the National Economic Development Council with a 4-percent growth rate set for 1961-66 and a 4.5-percent rate for the latter part of the decade, presumably supported by Government policies, implies that Britain should meet the OECD target rate and probably exceed it. The U.S. upper limit projection presumes that unemployment will be reduced to

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4 percent of the labor force even though the rate of new additions to the labor force will be almost double that of the previous decade, and that fuller use of resources will stimulate accelerated productivity advances. Our inability thus far to realize the assumptions casts doubt on the ability of the United States to meet its growth target. Continuation of recent employment and productivity performance imply a GNP growth rate for the United States of about 3.6 percent, the average for 1947-62.

There being no official Soviet growth target beyond 1965, except for the ephemeral 20 year goals set for 1980, and a major difference in Soviet and western concepts of national product, the projection of Soviet GNP growth is based on recent historic trends. If the premise that 1958 represented a kink in the Soviet growth path is assumed, then the base for extrapolation should lie in the post-1958 period. In view of the nonrepetitive measures adopted during the past decade to increase labor force participation and the high participation of women in remunerative employment, it is unlikely that employment can be increased much beyond the 1.2 percent annual increment projected in the labor force. As for productivity expectations, a minimum would appear to be established by the 1958-62 performance with its 7 percent industrial growth rate and virtual stagnation in agriculture. The upper limit presumes the same industrial growth rate but resumption of the 2 percent annual growth in agricultural output which prevailed from 1958-61 before adverse weather factors intervened. Both rates also assume that growth in nonmilitary services will continue to be rapid, as seems fitting to an economy of increasing sophistication and sensitivity to consumer requirements.

The likelihood of the growth rate disparity between the U.S.S.R. and the United States being closed is, therefore, contingent upon the extreme assumptions of maximum United States and minimum Soviet growth rates (table VIII-7). A more probable set of projections would see the disparity being narrowed from the respective performances of the 1950's, but with Soviet expansion still exceeding that of the United States by 1 to 1½ percent. However, the Soviet Union will grow little or no faster than France and Italy and considerably slower than Japan.

TABLE VIII-1.—Growth index of Soviet gross national product
 [1955=100]

Sector	1955 weights	1950	1958	1959	1960	1961	1962
Industry	39.3	61.7	133.6	145.0	154.1	164.7	176.5
Construction	8.8	55.6	150.8	173.8	188.9	193.1	197.6
Agriculture	36.2	81.3	126.6	121.5	124.9	135.1	125.4
Transportation	5.1	61.2	137.7	151.7	161.2	171.4	181.8
Communications	.8	73.6	120.7	129.9	136.8	147.1	157.5
Trade (internal)	3.9	73.7	115.9	121.0	125.2	130.6	136.3
Services	14.9	88.6	97.6	99.7	103.5	109.5	114.9
Of which—							
Defense	34.3	87.0	70.3	60.7	61.1	61.1	61.1
Education	28.5	83.1	109.8	114.2	120.4	129.5	138.0
Health	11.8	78.1	116.4	123.5	131.7	140.0	145.2
Government administration	9.8	134.5	96.1	93.5	91.5	95.2	97.8
Housing	6.2	86.4	110.6	122.4	137.1	145.0	151.3
Finance	1.9	99.6	98.1	98.1	100.0	104.5	106.4
Science	7.4	72.0	134.0	148.6	177.7	198.6	221.2
Gross national product ¹	100.0	72.7	126.5	131.4	138.0	147.0	160.2
Link relative for GNP ¹			9.9	3.9	5.0	6.5	2.2

¹ For alternative calculations of growth, see 3d paragraph in following methodological discussion.

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1955 weights

SOURCES AND METHODOLOGY

The sector weights are based initially on the distribution of Soviet national income by sector of origin at adjusted prices (factor cost) in Morris Bornstein and others, "Soviet National Accounts for 1955," Center for Russian Studies, University of Michigan, 1961 (p. 84). The weight of their statistical discrepancy has been distributed among the component sectors on the basis of supplementary information, largely manpower statistics, as to the distribution of residual factor payments. The Bornstein calculation makes no allowance for a factor return of rent on superior land. Although procurement prices at which farm products are purchased by state agencies make no allowance for rent, there is no corresponding saving in the prices paid by retail consumers of processed farm products since retail prices include large turnover taxes. Therefore, for purposes of international comparability some upward adjustment should be made to agricultural incomes to include the omitted land rent. D. Gale Johnson has computed the ratio between land rent and agricultural labor income in the United States for the years 1910-14 and 1940-44 (*Journal of Farm Economics*, November 1948, p. 742). The average ratio for these two periods is around 40 percent. Johnson obtained similar results for other economies with varying states of development. On this basis the Bornstein estimate of agricultural factor payments has been increased by 40 percent. The weights of the nonagricultural sectors have been reduced in proportion to the increase in the agricultural weight.

Because of its large share in total product the size of the agricultural weight selected exerts an important influence on trends in calculated GNP. The magnitude of the agricultural weight depends in turn upon controversial assumptions as to the treatment of land rent and the valuation of farm income-in-kind. While experimental indexes using different weights for agriculture indicate imperceptible differences in longrun trends of GNP during the postwar years, there are marked differences in individual years characterized by adverse or unusually favorable weather conditions.

If no imputation is made for agricultural rent on the grounds that no Soviet data is available for an adjustment and that some rent payment may be included in the evaluation even though not explicitly costed, the agricultural weight in table 1 would be reduced to 27.1 from 36.2. The GNP index for 1962 (1958=100) would be unchanged but the link relative for 1958 would be reduced to 9.6 from 9.9 percent and that for 1962 increased to 3.0 from 2.2 percent.

Derivation of sector indexes

Industry.—See table III-7, Civilian Production.

Construction.—Indexes in 1953 prices of state and cooperative (p. 44), collective farm (p. 164), and private housing (pp. 188-189) in *Tsentral'noe Staticheskoe Upravlenie, "Kapital'noe Stroitel'stvo v S.S.S.R."* (Central Statistical Administration, "Capital Investment in the U.S.S.R."), Moscow, 1961, for data through 1960; 1961 and 1962 data from same author, *"Narodnoe Khoziaistvo S.S.S.R. v 1962 Godu"* ("National Economy of the U.S.S.R. in 1962"), (pp. 433, 437).

Agriculture.—See table II-9.

Transportation.—The index of ton-kilometers of railroad traffic is used to represent all traffic. Over the period the dominant rail proportion remains almost unchanged as a share of total freight traffic. Data obtained from *"Narodnoe Khoziaistvo S.S.S.R. v 1962 Godu"* (p. 379).

Communications.—Total revenues of communications sector, *"Narodnoe Khoziaistvo, 1962,"* p. 422.

Trade.—Value added in trade is assumed to be represented by the index of wages and profits in unchanged prices. The 1955 base year wage figure is derived from T.S.S.U., *"Sovetskaiia Torgovlia"* (Soviet Trade), Moscow, 1956 (pp. 114, 121, 123). It is moved by indexes of employment in trade obtained from *"Narodnoe Khoziaistvo, 1958"* (p. 659), *"Narodnoe Khoziaistvo, 1962"* (p. 453). The profit figures are obtained from *"Narodnoe Khoziaistvo, 1962"* (p. 627).

Services.—Indexes for service subsectors are based on employment trends. As such, they exclude productivity improvements and thereby understate trends in value added. The defense manpower estimates are obtained from "Dimensions

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of Soviet Economic Power" (p. 43), the column on million man-years. The employment trends for the other subsectors are obtained from "Narodnoe Khoziaistvo, 1958" (p. 659); and "Narodnoe Khoziaistvo, 1962" (p. 453).

TABLE VIII-2.—Comparative growth rates of gross national product

Country	1958	1959	1960	1961	1962	Aggregate		Per capita	
						Average rate, 1950-58	Average rate, 1958-62	Average rate, 1950-58	Average rate, 1958-62
France	1.8	2.3	0.2	4.4	5.8	4.4	4.8	3.5	3.5
Germany (Federal Republic)	3.3	6.7	8.0	5.3	4.1	7.6	6.2	6.4	4.9
Italy	4.4	7.7	6.9	8.0	6.0	5.6	7.2	5.0	6.6
United Kingdom	2.2	2.5	4.3	2.0	1.4	2.4	2.8	1.9	2.0
Japan	-1	18.3	13.0	16.1	5.7	6.1	13.2	5.0	12.2
U.S.S.R.	9.9	3.9	5.0	6.5	2.2	2 ⁶ 6.8	2 ⁶ 4.6	2 ⁶ 5.0	2 ⁶ 2.8
United States	-1.2	6.6	2.7	1.9	6.1	2.9	4.3	1.2	2.5

¹ 1953-58 for earlier period.

² Some adjustment must be introduced to reflect the impact of arms production not included in the computed index. According to Greenslade and Wallace in "Dimensions of Soviet Economic Power" p. 123, if arms production is added to the computed civilian industrial production index, the latter trend is increased between 1950 and 1952, reduced between 1952 and 1957, and increased after 1957. Application of their suggested numerical adjustments to my calculated GNP trend would yield the noted average growth rates.

SOURCES

OECD countries: (France, Germany, Italy, United Kingdom, United States) GNP, 1950-61. OECD, General Statistics, September 1962, 1962, Economic Commission for Europe, Economic Survey of Europe in 1962, p. II-3. OECD, Economic Surveys of the OECD-France, July 1963, p. 5. Population, OECD, Manpower Statistics, 1960-60, and OECD, General Statistics, September 1963, p. 33.

Japan: GNP, Bank of Japan, Economic Statistics Monthly, October 1963, pp. 156-157. Population, same source p. 9.

U.S.S.R.: GNP. (See table VIII-1.) Population, 1950-61, from Joint Economic Committee, U.S. Congress, "Dimensions of Soviet Economic Power," p. 615. 1962 estimate from Table I-1.

TABLE VIII-3.—Role of increases in employment and labor productivity in comparative growth of GNP (average annual rates)

Country	GNP	1950-58 employment	Productivity	GNP	1958-62 employment	Productivity ¹
France	4.4	0.4	4.0	4.8	0.9	3.8
Germany (Federal Republic)	7.6	2.4	5.1	6.2	1.4	4.8
Italy	5.6	1.6	3.9	7.2	1.2	5.9
United Kingdom	2.4	.4	1.9	2.8	.8	2.0
Japan ²	6.1	2.1	4.0	13.2	1.6	11.5
U.S.S.R.	6.8	1.7	5.0	4.6	1.3	3.3
United States	2.9	1.0	1.9	4.3	1.5	,2.7

¹ Index of GNP ÷ index of employment expressed in man-years. No adjustment has been made for reductions in working hours. In the 2 time periods under consideration there was a larger reduction in annual hours worked in manufacturing in the U.S.S.R., 13 percent ("Narodnoe Khoziaistvo S.S.R. v 1962 Godu," p. 488) than in the other economies—France, 0.5; Germany, 7.8; United Kingdom, 2.5; and the United States, 3.2 percent (OECD, Productivity Measurement Review, November 1962, p. 12). Japanese working hours rose by 3.9 percent (Japan, Ministry of Foreign Affairs, "Statistical Survey of Economy of Japan, 1962," p. 11). Therefore, in terms of man-hours Soviet productivity accomplishments are relatively understated, but a precise adjustment cannot be made in the absence of information on hours of work in nonmanufacturing occupations for most of the countries in the comparison.

² 1953-58 for earlier comparison.

SOURCES

OECD countries: GNP. (See table VIII-2.) Employment, 1950-61, OECD, Economic Surveys by the OECD—France, July 1962, p. 7. 1962, ECE, Economic Survey of Europe, 1962, p. 11-19. Japan: GNP. (See table VIII-2.) Employment. (See source for population estimate in table VIII-2.) U.S.S.R.: GNP. (See table VIII-1.) Employment. (See table V-A-3.)

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TABLE VIII-4.—Comparative growth of consumption and investment (average annual rates)

Country	Consumption per capita		Investment		Marginal capital/output ratios ¹	
	1950-58	1958-62	1950-58	1958-62	1950-58	1958-62
France	3.3	2.9	5.5	5.4	3.4	3.6
Germany (Federal Republic)	6.3	5.7	9.6	9.7	3.2	3.9
Italy	3.1	5.6	8.2	11.0	3.8	2.7
United Kingdom	1.6	1.9	4.4	5.5	5.9	0.4
Japan ²	2.8	7.5	7.7	22.0	1.5	.9
U.S.S.R.	6.0	3.0	10.8	7.7	3.3	6.2
United States	1.1	1.6	1.3	4.1	6.3	5.3

¹ Increase in nonhousing investment required to obtain a unit of increase in output per employee. The lower the ratio the higher the return (productivity) of investment. The ratio is increased to the extent unutilized productive capacity exists. Thus the apparent decrease in the U.S. ratio in the later period reflects the utilization of capacity idled during the 1958 recession.

² 1953-58 for the earlier period comparison.

SOURCES

OECD countries. (See sources to tables VIII-2 and VIII-3.)

Japan. (See sources to tables VIII-2 and VIII-3.)

U.S.S.R.:

Consumption. (See table III-6.)

Investment. (See sources for construction index in table VIII-1.)

Employment. (See source reference in table VIII-3.)

TABLE VIII-5.—Comparative per capita uses and value of gross national product in 1962 (market prices)

Country	Per capita				Value of gross national product ² (billions)
	Private consumption ¹	Fixed investment ¹	Defense ¹	Gross national product ¹	
France	1,185	294	108	1,810	88.6
Germany (Federal Republic)	1,047	461	100	1,780	96.2
Italy	607	224	40	1,058	52.8
United Kingdom	1,098	283	125	1,730	91.5
Japan	(3)	(3)	(3)	811	77.0
U.S.S.R.	486	373	102	1,158	256.3
United States	1,889	480	300	3,004	551.8

¹ 1961 dollars.

² Billions of 1961 dollars.

³ Not available.

SOURCES AND METHODOLOGY

GNP

OECD: The 1962 breakdown of GNP is initially expressed in the countries' own currencies. These estimates are based on 1961 estimates in OECD, General Statistics, September 1963 moved to 1962 by link relatives obtained from ECE, "Economic Survey of Europe, 1962," (p. II-3). Ratios for converting these estimates to dollars are initially based on 1950 ratios in Gilbert and Kravis, "An International Comparison of National Products and the Purchasing Power of Currencies," OEEC, Paris, 1954. The geometric mean of United States and European weighted ratios are used. The ratios are moved to 1962 by the quotients of relevant European prices indexes divided by U.S. prices indexes. The price indexes can be derived from the previously cited General Statistics volume as the ratios between values expressed in terms of both current and constant prices.

Japan: The same methodology is followed for Japan. The 1961 division of GNP in yen and 1962 link relatives are obtained from Bank of Japan, Economic Statistics Monthly, October 1963. A 1960 geometric conversion ratio has been constructed by Irving Kravis in Journal of Political Economy, August 1963 (p. 327). This ratio is expressed in 1961 prices by the same procedure used for the OECD economies.

U.S.S.R.: The same methodology is followed for the U.S.S.R. The 1962 division of GNP in 1955 rubles is obtained in the manner described in footnotes to

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table 4, with the 1962 defense link relative derived in similar fashion from the 1962 state budget as the earlier estimates, as noted in "Dimensions of Soviet Economic Power" (p. 72).

The procedure for converting 1955 rubles into dollars has been described in "Dimensions" (p. 76). There is no available Soviet price index for moving the ratio to 1962 values, but available scattered statistics indicate little change in price levels for national income (1959 to 1962) and for 1955 to 1962 for industrial products and consumer goods sold in state outlets. Therefore, the movement in geometric ruble-dollar ratios from 1955-62 are assumed to be only a function of changes in U.S. prices.

Population estimates

See footnotes to table VIII-2.

TABLE VIII-6.—*Industrial output per employee, 1962*

Country	Industrial ¹ output (billions of dollars)	Industrial ² employment (thousands)	Industrial output per employee (dollars)	Industrial output per capita (dollars)
France.....	21.3	5,324	4,000	461
Germany (Federal Republic).....	32.8	9,273	3,537	609
Italy.....	15.0	4,915	3,052	301
United Kingdom.....	39.3	10,420	3,772	743
Japan.....	18.4	11,200	1,643	194
U.S.S.R.....	86.7	24,297	3,531	392
United States.....	180.2	17,714	10,160	981

¹ Value added in manufacturing, mining, and electric and gas utilities.

² Wage and salaried employees.

SOURCES AND DERIVATIONS OF ESTIMATES

OECD: Value added relationships for European OECD economies in 1959 obtained from OEEC, Industrial Statistics, 1900-1959 (p. 4); 1953 ratio of U.S. and Common Market economies industrial value added (OECD, General Statistics, September 1963, p. 2) moved to 1959 by respective industrial production indexes; 1959 weights moved to 1962 by respective industrial production indexes (OECD, General Statistics, September 1963, p. 2); 1962 value of value added in U.S. manufacturing, mining, and public utilities obtained from U.S. Department of Commerce, Survey of Current Business, September 1963 (p. 10).

Employment data from OECD "Manpower Statistics 1900-1960," ECE, "Economic Survey of Europe in 1962" (p. II-19), and Survey of Current Business, July 1963 (p. 33).

Japan: 1953 ratio of Japanese and Common Market industrial value added (National Institute Economic Review, November 1963, p. 89) moved to 1962 by respective production indexes (Bank of Japan, Monthly Statistics, October 1963, p. 17).

Employment from ECAFE, "Economic Survey of Asia and the Far East in 1962" (p. 188). Excludes utilities and is average of first three quarters.

U.S.S.R.: Estimate of Allen Dulles of Soviet industrial output as one-third of United States in 1955 (Joint Economic Committee, U.S. Congress, "Dimensions of Soviet Economic Power," p. 127) moved to 1962 by respective industrial production indexes.

Employment estimate sourced in table VIII-3.

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TABLE VIII-7.—*Comparative projections of GNP*

Country	Projected ¹ average annual growth rate, 1960-70	Performance, ² 1960-63
France	5.0	5.1
Germany (Federal Republic)	4.1	3.9
Italy	5.6	6.3
United Kingdom	3.3	2.4
Japan	7.2	10.2
U.S.S.R.	4.5-5.0	3.5
United States	3.6-4.6	3.8

¹ For OECD countries rates represent official national projections of growth within overall OECD target average of 4.5 percent OECD, "Policies for Economic Growth," Paris, 1962, p. 28. Lower U.S. estimate is annual average for 1947-62.

The projection for Japan is the official plan goal, Japan, Economic Planning Agency, "New Long Range Economic Plan of Japan, 1966-70," Tokyo, 1961, p. 2.

The U.S.S.R. projection represents a range bounded at the lower limit by the average annual rate of growth of GNP per employed from 1958-62 of 3.3 percent (table VIII-3) and at the upper limit the rate which would have been achieved had agricultural output continued to rise by the 2.2 percent average annual increase of 1958-61—3.7 percent. When those 2 GNP productivity projections are multiplied by the 1.2 percent growth projected for the labor force ("Dimensions of Soviet Economic Power, p. 88) the range of growth for GNP is derived.

² France, Germany, Italy—1963 estimates from European Economic Community, Economic Situation in the Community, September 1963, pp. 36, 46, 59.

United Kingdom—Estimate on 1963 from National Institute of Economic and Social Research, National Institute Economic Review, November 1963, p. 5.

United States—U.S. Department of Commerce, Office of Business Economics, *Survey of Current Business*, January 1964.

Japan—1963 preliminary estimate of Economic Planning Agency.

U.S.S.R.—1963 estimate based on preliminary calculations of industrial and agricultural performance and assumption of continuation of 1962 rate of growth for other origin sectors, except for deceleration in services from 4.9 to 4.5 percent to reflect resumption of military demobilization.

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SECTION IX
SOVIET BUDGET

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TABLE IX-1.—*Revenues of the state budget of the U.S.S.R., by budget category, 1955 and 1958-62*¹

[In billions of current rubles]

	1955	1958	1959	1960	1961	1962
Social sector	47.62	60.40	66.61	70.14	71.0	76.7
Turnover tax	24.24	30.45	31.07	31.34	30.9	32.9
Deductions from profits	10.28	13.54	15.96	18.03	20.7	23.9
Revenue from MTS-RTS's ²	.62	.97	.18	³ (0)	³ (0)	³ (0)
Other taxes on organizations	1.24	1.66	1.90	1.84	1.2	1.3
Social insurance receipts	2.61	3.26	3.58	3.74	4.2	4.5
Revenue residual	8.63	10.52	13.92	14.59	14.0	14.1
	8.82	6.83	7.41	6.94	6.9	7.6
Private sector						
State taxes on the population	4.83	5.19	5.52	5.60	5.8	6.0
State loans from savings deposits	.53	.65	1.33	.85	.76	1.1
Other state loans	3.14	.40	.16	.66	.03	.1
Local taxes and state lottery revenue	.32	.59	.40	.43	.3	.4
Total revenues	56.43	67.24	74.01	77.08	78.0	84.3

¹ Due to rounding, components may not add to the totals shown. Rubles are expressed in terms of new rubles.

² Machine tractor stations (MTS's) until 1958, repair technical stations (RTS's) thereafter.

³ Figures in parentheses are estimates.

SOURCES

G. F. Dundukov (ed.), Gosudarstvennyy byudzhet S.S.R. i byudzhety soyuznykh respublik: statisticheskiy sbornik, p. 7, 8, 9.
TsSU S.S.R., Narodnoye Khozyaystvo S.S.S.R. v 1961 godu, p. 761.
TsSU S.S.R., Narodnoye Khozyaystvo S.S.S.R. v 1962 godu, p. 635.

TABLE IX-2.—*Expenditures of the state budget of the U.S.S.R., by budget category, 1955 and 1958-62*¹

[In billions of current rubles]

	1955	1958	1959	1960	1961	1962
Financing the national economy	23.31	29.03	32.37	34.12	32.6	36.2
Industry and construction	10.95	13.67	14.88	15.50	⁽²⁾	⁽²⁾
State agriculture ³	5.09	4.00	3.52	4.42	⁽²⁾	⁽²⁾
Agricultural procurement	.76	⁴ (.50)	^(.50)	^(.50)	⁽²⁾	⁽²⁾
Trade (domestic and foreign)	1.07	2.03	3.21	3.59	⁽²⁾	⁽²⁾
Transportation and communications	1.95	2.41	2.68	2.81	⁽²⁾	⁽²⁾
Municipal economy and housing	.90	1.90	2.75	3.21	⁽²⁾	⁽²⁾
Residual	2.59	^(4.51)	^(4.83)	^(4.00)	⁽²⁾	⁽²⁾
	14.72	21.42	23.12	24.94	27.2	28.9
Social-cultural measures						
Education and science	6.89	8.60	9.41	10.32	11.3	12.4
Health and physical culture	3.11	4.11	4.46	4.82	5.0	4.9
Social welfare	4.71	8.70	9.24	9.79	10.9	11.6
Defense	10.74	9.36	9.37	9.30	11.6	12.7
Administration	1.25	1.20	1.12	1.09	1.1	1.1
Loan service	1.43	.37	.69	.7	.8	.8
Budgetary expenditure residual	2.50	2.90	3.73	2.97	3.0	2.5
Total expenditures	53.95	64.28	70.40	73.13	76.3	82.2

¹ Due to rounding, components may not add to the totals shown. Rubles are expressed in terms of new rubles.

² Not available.

³ Including machine tractor stations and repair tractor stations.

⁴ Figures in parentheses are estimates.

SOURCES

G. F. Dundukov (ed.), Gosudarstvennyy byudzhet S.S.R. i byudzhety soyuznykh respublik: statisticheskiy sbornik, p. 18, 19.
TsSU S.S.R., Narodnoye Khozyaystvo S.S.S.R. v 1958 godu, p. 900.
TsSU S.S.S.R., Narodnoye Khozyaystvo S.S.S.R. v 1961 godu, p. 761.
TsSU S.S.S.R., Narodnoye Khozyaystvo S.S.S.R. v 1962 godu, p. 635.

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SECTION X
FOREIGN TRADE AND AID

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Part A—Soviet Trade

TABLE X-A-1.—Geographic distribution of Soviet foreign trade, 1955–62.¹
 [In millions of current U.S. dollars]

Year	Total foreign trade	Communist countries				Free world				
		Total	European satellites	Communist China	Other Asian	Other ²	Total	Industrial West	Underdeveloped countries	Other
1955—Exports	3,426.6	2,722.9	1,792.1	748.3	106.1	16.4	703.7	543.7	112.3	47.7
Imports	3,060.5	2,415.3	1,462.8	643.5	94.5	17.4	642.2	430.6	210.4	1.2
1956—Exports	3,615.0	2,729.3	1,761.7	733.0	109.5	69.1	885.7	597.2	179.5	109.0
Imports	3,632.6	2,735.7	1,815.0	764.2	106.8	49.7	876.9	578.8	296.5	1.6
1957—Exports	4,381.4	3,304.5	2,549.9	544.1	137.4	73.1	1,076.9	690.1	282.8	104.0
Imports	3,957.8	2,825.7	1,914.8	738.1	115.9	56.9	1,112.1	672.5	435.3	4.3
1958—Exports	4,297.5	3,136.3	2,320.2	634.0	131.0	51.1	1,161.2	669.6	389.3	102.3
Imports	4,349.5	3,242.0	2,205.7	881.2	104.2	50.9	1,107.6	622.2	481.6	3.7
1959—Exports	5,440.7	4,123.9	2,950.5	964.5	172.7	46.2	855.5	543.5	243.5	117.8
Imports	5,073.2	3,759.5	2,519.3	1,000.3	116.8	53.1	1,288.7	756.5	522.2	6.0
1960—Exports	5,581.6	4,207.5	3,117.7	817.1	146.8	125.9	1,354.1	971.8	346.6	36.7
Imports	5,628.9	3,978.5	2,819.4	848.1	154.1	156.9	1,650.4	1,069.5	574.8	6.1
1961—Exports	5,995.2	4,310.0	3,399.8	367.3	210.8	32.9	1,688.2	1,059.9	507.3	121.0
Imports	5,827.6	4,146.8	3,044.2	551.4	163.0	38.8	1,680.8	1,087.7	684.1	9.0
1962—Exports	7,034.7	4,909.3	3,971.2	233.4	261.6	43.1	2,126.4	1,105.1	567.7	452.6
Imports	6,449.7	4,532.6	3,387.5	516.3	178.8	230.0	1,887.1	1,264.6	614.0	8.5

¹ Other Communist countries include Yugoslavia 1955–62, Albania 1961–62, and Cuba 1960–62. Prior to 1961 Albania is included in the European satellites and prior to 1960 Cuba is included in underdeveloped countries of the free world.

² Figures based on Vnesheinii Torgovii S.S.R. za 1962 god, Ministerstvo Vneshnei Torgovii S.S.R. (Moskva, 1963) and earlier volumes. Values converted from rubles to dollars at rate of 1 ruble=\$1.11.

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TABLE X-A-2.—Commodity composition of Soviet exports, 1955-62
 [In millions of current U.S. dollars and percent of total]

	1955	1956	1957	1958	1959	1960	1961	1962
	Value	Value	Value	Value	Value	Value	Value	Value
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Total exports ¹	3,426.6	100.0	3,615.0	100.0	4,381.4	100.0	4,297.5	100.0
Machinery and equipment	599.0	17.5	624.4	17.3	652.1	14.9	794.8	18.5
Complete plants and related materials	276.8	8.1	299.6	8.3	321.9	7.3	339.9	7.9
Fuels, lubricants, and coke	320.0	9.6	428.2	11.8	648.3	14.8	651.2	15.2
Petroleum and petroleum products	297.8	9.9	142.8	4.0	249.5	5.7	213.8	5.1
Ores and concentrates	230.1	6.7	284.4	7.9	397.6	9.1	429.9	10.0
Iron ore	115.4	3.4	130.0	3.6	183.9	4.2	190.9	4.4
Basic metals and manufactures	431.8	12.6	543.0	15.0	642.5	14.7	692.1	16.1
Nonferrous metals	321.0	9.4	385.7	10.7	439.6	10.0	494.5	11.5
Rolled ferrous metals	192.2	5.6	233.6	6.5	267.9	6.1	329.1	7.7
Nonferrous metals	110.7	3.2	157.3	4.4	202.9	4.6	197.6	4.6
Aluminum and duralumin	25.9	1.8	38.3	1.1	51.1	1.2	64.5	1.5
Tin	6.3	2.2	7.1	2.3	37.6	2.8	113.8	2.2
Chemicals	72.4	2.1	82.1	2.3	97.6	2.2	124.1	2.6
Wood and wood products	174.5	5.1	161.7	4.5	231.1	5.3	240.9	5.6
Lumber	94.3	2.8	86.0	2.4	133.1	3.1	136.9	3.2
Textile raw materials and semimanufactures	346.7	10.1	329.2	9.1	365.0	7.0	293.8	6.8
Cotton fiber	287.9	8.7	272.4	7.5	255.5	5.8	238.6	5.6
Consumer goods	497.8	14.5	476.8	13.2	917.7	20.9	665.4	16.5
Food	386.4	11.2	369.2	10.2	773.6	17.6	507.7	11.8
Grain	283.5	8.3	226.7	6.3	566.0	12.9	358.8	8.3
Other consumer goods	111.4	3.3	107.6	3.0	144.1	3.3	157.7	3.7
Other merchandise	164.8	4.8	179.3	5.0	178.5	4.1	224.7	4.1
Unspecified	695.4	20.3	660.2	18.3	524.5	12.0	478.4	11.2

¹ Because of rounding, components may not add to the totals shown. ² Negligible.

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TABLE X-A-3.—Commodity composition of Soviet imports, 1955-62
 [In millions of current U.S. dollars and percent of total]

	1955	1956	1957	1958	1959	1960	1961	1962
	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total imports	3,090.5	100.0	3,612.6	100.0	3,937.8	100.0	4,349.5	100.0
Machinery and equipment	925.3	30.2	895.3	24.8	940.4	23.9	1,004.6	24.5
Fuels, lubricants, and related materials	250.0	12.5	424.2	11.6	407.3	10.3	427.2	9.8
Cooling materials	126.9	8.2	256.4	7.1	268.1	6.3	212.2	4.9
Petroleum and petroleum products	123.1	4.1	118.8	3.3	88.7	2.3	77.0	1.8
Ores and concentrates	251.3	8.2	374.6	10.4	387.5	3.8	113.4	3.0
Base metals and manufactures	204.1	6.7	288.3	8.0	291.1	11.5	432.3	11.5
Ferrous metals	71.0	2.3	145.2	4.0	163.5	7.4	201.1	7.3
Rolled ferrous metals	16.1	5.5	88.4	2.4	103.5	4.2	133.4	4.2
Nonferrous metals	133.1	4.3	143.1	4.0	119.5	3.0	127.8	3.0
Tin	47.9	1.6	32.4	0.9	45.5	1.2	33.1	3.1
Copper	43.5	1.4	46.2	1.3	44.2	1.1	39.5	1.9
Chemicals	52.1	1.7	77.1	2.1	76.5	1.9	54.5	1.3
Rubber and rubber products	41.4	1.4	124.8	3.5	127.7	3.2	182.2	4.2
Wood and wood products	92.9	3.0	107.7	3.0	120.2	3.1	104.8	2.4
Textile raw materials and semimanufactures	166.4	5.4	216.3	6.0	317.8	8.1	309.3	7.1
Cotton	20.1	7.7	54.0	1.5	122.9	3.1	135.2	3.1
Wool	89.7	2.9	90.0	2.5	127.8	3.2	107.7	2.5
Consumer goods	661.9	21.6	824.3	22.8	913.9	23.2	1,161.8	26.5
Food	517.1	16.9	487.5	13.5	480.4	13.5	539.9	12.2
Other consumer goods	144.8	4.7	336.8	9.3	433.5	11.0	601.5	13.8
Other merchandise	308.6	10.1	365.8	10.1	399.5	10.1	397.6	9.1
Unspecified	106.5	3.4	81.9	2.3	89.4	2.3	97.7	2.2

¹ Because of rounding components may not add to the totals shown.

TABLE X-A-4.—Commodity composition of Soviet exports to European satellites, 1955-62
 (In millions of current U.S. dollars and percent of total)

	1955	1956	1957	1958	1959	1960	1961	1962
Value	Per cent	Value	Per cent	Value	Per cent	Value	Per cent	Value
Total exports ¹	1,732.1	100.0	1,767.7	100.0	2,549.9	100.0	2,320.2	100.0
Machinery and equipment	304.4	17.0	218.1	12.3	220.5	8.6	248.4	10.7
Complete plants and related materials	129.7	7.2	65.4	3.7	50.4	2.0	51.5	2.2
Fuels, lubricants, and coke	120.4	6.7	163.9	9.3	313.7	12.3	301.8	13.0
Petroleum and petroleum products	55.1	3.6	90.1	5.1	176.8	6.9	163.9	6.6
Orts and concentrates	102.3	5.7	106.7	4.1	135.6	5.3	146.3	6.3
Iron ore	249.6	13.9	302.2	17.1	415.2	16.3	415.2	16.3
Base metals and manufactures	164.3	9.2	163.0	10.9	273.4	10.7	246.8	10.9
Ferrous metals	85.3	4.8	118.2	6.7	173.1	6.8	239.7	10.3
Rolled ferrous metals	13.3	1.7	109.2	6.2	141.9	5.6	109.4	4.7
Nonferrous metals	5.9	.3	13.7	1.5	25.0	1.0	24.4	1.1
Aluminum	38.1	2.1	45.5	3.3	48.1	1.9	52.8	2.3
Tin	20.5	1.1	35.6	2.0	38.7	2.2	32.9	1.4
Chemicals	4.0	.2	14.3	.8	43.9	1.7	46.7	2.0
Wood and wood products	284.3	14.7	262.2	14.8	248.7	9.8	243.9	10.5
Lumber	233.8	13.0	229.7	13.0	215.0	8.4	208.3	9.0
Textile raw materials and semimanufactures	285.7	15.9	241.2	13.6	667.9	26.2	423.8	18.3
Cotton	262.3	14.6	207.1	11.7	597.6	23.4	349.2	15.1
Consumer goods	230.4	12.9	121.9	6.9	457.0	17.9	269.8	11.6
Food	23.4	1.3	34.1	1.9	70.2	2.8	73.8	2.9
Grain	68.0	3.8	82.1	4.6	81.1	3.2	66.1	2.8
Other consumer goods	68.0	3.8	82.1	4.6	316.8	12.4	388.2	13.2
Unspecified	340.9	19.0	316.0	17.9	316.0	12.1	281.3	12.1

² Negligible.

¹ Because of rounding, components may not add to the totals shown.

TABLE X-A-5.—*Commodity composition of Soviet imports from European satellites, 1955-62*
[In millions of current U.S. dollars and percent of total]

	1955	1956	1957	1958	1959	1960 ^a	1961	1962
	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total imports¹								
Machinery and equipment	1,662.8	100.0	1,815.0	100.0	1,914.8	100.0	2,205.7	100.0
Finishes, lubricants, and related materials	274.6	44.1	16.5	635.9	36.1	716.9	37.3	861.6
Coal and coke	233.9	14.1	269.3	14.5	302.8	15.8	333.7	15.4
Petroleum and petroleum products	121.4	7.3	116.6	6.4	126.6	4.5	130.1	8.6
Ores and concentrates	112.6	6.8	111.2	6.1	86.4	4.5	74.1	3.4
Base metals and manufactures	152.9	9.2	152.5	8.4	158.1	5.1	116.0	5.3
Ferrous metals	37.2	2.2	39.6	2.2	130.7	7.3	160.8	7.3
Nonferrous metals	11.0	.7	13.2	.7	30.4	1.6	35.1	1.6
Copper	4.8	.3	5.9	.3	17.4	.9	17.3	.9
Rubber and rubber products	26.3	1.6	26.4	1.5	11.2	.6	25.6	1.2
Wood and wood products	36.7	(2)	40.5	(2)	13.0	(2)	10.1	.5
Textile raw materials and semimanufactures	14.5	.9	14.9	.8	2.2	1.8	41.8	(2)
Cotton	36.2	.2	39.5	.2	17.4	.9	1.8	1.2
Consumer goods	6.5	.4	12.5	.7	11.0	.6	37.0	1.6
Food	186.8	11.2	296.7	(2)	325.4	(2)	9.5	.4
Other consumer goods	111.6	6.7	86.1	4.7	277.7	17.0	445.0	20.2
Unspecified	137.2	8.2	244.6	11.8	247.7	12.9	322.5	12.5

¹ Because of rounding, components may not add to the totals shown.

^a Negligible.

TABLE X-A-6.—*Commodity composition of Soviet exports to Communist China, 1955-62*
 [In millions of current U.S. dollars and percent of total]

	1955	1956	1957	1958	1959	1960	1961	1962
	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total exports ¹	748.3	100.0	733.0	100.0	544.1	100.0	634.0	100.0
Machinery and equipment	229.6	30.7	304.7	41.6	271.6	49.9	318.0	50.2
Complete plants and related materials	141.5	18.9	216.9	29.6	209.0	38.4	166.2	26.2
Fuels, lubricants, and petroleum products	70.0	10.6	86.0	11.7	90.4	16.6	92.4	14.6
Ores and concentrates	73.0	10.6	86.0	11.7	90.4	16.6	92.4	14.6
Base metals and manufactures	88.5	11.8	78.4	10.7	40.8	7.5	76.7	12.1
Ferrous metals	75.7	10.1	60.5	8.3	32.4	6.0	60.9	9.6
Packed ferrous metals	53.7	7.2	43.7	6.0	21.4	3.9	36.8	5.8
Nonferrous metals	12.8	1.7	17.9	2.4	8.4	1.5	16.8	2.5
Aluminum	1.1	(2)	1.1	(2)	1.1	(2)	9.2	1.5
Chemicals	4.8	6.6	2.1	3	3.2	6	3.9	4.7
Wood and wood products	12.2	1.6	10.8	1.5	6.0	1.1	5	1.2
Consumer goods	6.3	.8	6.0	.8	7.7	1.4	9.2	1.5
Food	1.0	.1	.7	.7	.1	.1	.2	.1
Other consumer goods	5.3	.7	5.3	.7	6.8	1.2	8.1	1.3
Other merchandise	5.3	.7	5.7	.8	3.6	1.1	6.9	1.8
Unspecified	322.4	43.1	288.1	32.6	120.6	22.2	120.9	19.1

¹ Because of rounding, components may not add to the totals shown.

² Negligible.

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TABLE X-A-7.—*Commodity composition of Soviet imports from Communist China, 1955-62*
 [In millions of current U.S. dollars and percent of total]

	1955	1956	1957	1958	1959	1960	1961	1962
	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total imports ¹	643.5	100.0	764.2	100.0	738.1	100.0	881.2	100.0
Machinery and equipment	10.3	1.6	9.2	1.2	6.4	.9	4.3	.5
Transportation equipment	10.3	1.6	9.2	1.2	6.4	.9	4.3	.5
Fuels, lubricants, and related materials	5.0	.8	2.1	.3	1.9	.3	3.0	.3
Coal and coke	5.0	.8	2.1	.3	1.9	.3	2.8	.3
Petroleum and petroleum products	62.2	9.7	76.5	9.9	86.9	12.2	74.0	8.4
Ores and concentrates	82.5	12.8	77.7	10.2	83.5	7.9	68.1	7.7
Base metals and manufactures	26.3	4.1	27.3	3.6	36.8	4.7	19.2	2.2
Ferrous metals	56.2	8.7	50.4	6.6	61.7	7.0	48.9	5.5
Nonferrous metals	47.9	7.7	32.4	4.2	45.6	6.2	39.3	4.5
Tin	4.4	.7	20.5	2.7	14.0	1.9	17.3	2.0
Chemicals	59.5	9.2	58.6	7.7	49.0	6.6	37.5	4.3
Wood and wood products	23.6	3.7	21.4	3.8	23.9	3.2	21.2	2.4
Rubber and rubber products	12.0	1.8	11.5	1.5	10.4	1.3	9.6	1.1
Textile raw materials and semimanufactures	59.5	9.2	58.6	7.7	49.0	6.6	37.5	4.3
Cotton	245.0	38.1	316.5	41.4	294.8	39.9	461.3	54.6
Consumer goods	183.5	28.5	209.5	27.4	157.9	18.7	230.1	26.1
Food	61.5	9.6	107.0	14.0	136.9	14.0	184.3	25.0
Other consumer goods	170.1	26.4	190.8	25.0	184.3	25.0	162.5	18.4
Other merchandise	.1	(2)	.1	1.6	(2)	1.6	.2	4.1
Unspecified	.1	.1	.1	.1	.1	.1	.5	.7

¹ Because of rounding, components may not add to the totals shown.

² Negligible.

TABLE X-A-8.—*Commodity composition of Soviet exports to the industrial West, 1955-62*
 [In millions of current U.S. dollars and percent of total]

	1955			1956			1957			1958			1959			1960			1961			1962		
	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total exports ¹	543.7	100.0	597.2	100.0	690.1	100.0	693.6	100.0	855.5	100.0	971.8	100.0	1,059.9	100.0	1,105.1	100.0	1,105.1	100.0	1,105.1	100.0	1,105.1	100.0	1,105.1	100.0
Fuels, lubricants, and related materials	72.3	13.3	101.8	17.0	145.1	21.0	143.7	21.5	207.7	24.3	245.8	25.8	278.3	26.3	320.9	26.3	320.9	26.3	320.9	26.3	320.9	26.3	320.9	26.3
Coal and coke	5.0	5.0	39.0	6.5	49.1	7.1	53.3	8.0	55.0	6.4	57.1	5.9	65.1	6.1	77.7	7.0	77.7	7.0	77.7	7.0	77.7	7.0	77.7	7.0
Petroleum and petroleum products	27.2	27.2	62.8	10.6	9.0	9.0	13.9	9.0	90.4	13.5	102.7	17.9	188.7	19.4	214.0	20.2	243.3	22.0	243.3	22.0	243.3	22.0	243.3	22.0
Ores and concentrates	45.1	8.3	22.4	3.8	28.6	4.1	23.9	3.6	25.6	3.6	30.0	3.4	31.4	3.0	25.1	2.3	25.1	2.3	25.1	2.3	25.1	2.3	25.1	2.3
Manganese ore	12.8	7.7	1.4	1.4	16.2	2.7	21.7	3.1	16.2	2.4	14.2	1.7	14.9	1.5	18.3	1.3	18.3	1.3	18.3	1.3	18.3	1.3	18.3	1.3
Base metals and manufactures	52.2	9.6	90.4	15.1	112.9	16.4	95.3	14.2	95.5	11.2	111.3	11.5	118.6	11.2	118.2	11.2	118.2	11.2	118.2	11.2	118.2	11.2	118.2	11.2
Ferrous metals	42.2	7.8	66.9	10.7	65.8	9.5	53.1	4.9	47.0	5.5	70.9	7.3	80.9	7.6	84.0	7.6	84.0	7.6	84.0	7.6	84.0	7.6	84.0	7.6
Pig iron	24.8	4.6	34.7	5.8	30.3	4.4	12.4	1.9	23.8	2.8	34.7	3.6	40.6	3.8	46.0	4.2	46.0	4.2	46.0	4.2	46.0	4.2	46.0	4.2
Rolled ferrous metals	7.9	1.5	13.4	2.2	17.8	2.6	10.3	1.5	11.8	1.4	18.9	1.9	24.0	2.3	24.0	2.2	24.0	2.2	24.0	2.2	24.0	2.2	24.0	2.2
Nonferrous metals	10.0	1.8	26.5	4.4	47.1	6.8	62.3	9.3	63.5	5.7	40.3	4.1	37.7	3.6	34.2	3.1	34.2	3.1	34.2	3.1	34.2	3.1	34.2	3.1
Tin	2.5	0.5	17.2	2.9	21.9	3.2	32.2	4.8	23.7	2.8	13.1	1.3	13.1	1.3	13.1	1.3	13.1	1.3	13.1	1.3	13.1	1.3	13.1	1.3
Aluminum	112.4	20.7	95.3	16.0	115.8	16.8	122.9	18.4	129.4	15.1	157.2	16.2	177.3	16.7	200.9	18.2	200.9	18.2	200.9	18.2	200.9	18.2	200.9	18.2
Wood and wood products	73.2	13.5	63.7	10.7	79.3	11.5	75.1	11.2	83.8	9.8	98.0	10.2	106.7	10.1	109.6	9.9	109.6	9.9	109.6	9.9	109.6	9.9	109.6	9.9
Lumber																								
Textile raw materials and semimanufactures	65.4	12.0	38.7	9.8	42.0	6.1	39.3	5.9	60.5	7.1	70.1	7.2	52.1	4.9	52.6	4.8	52.6	4.8	52.6	4.8	52.6	4.8	52.6	4.8
Cotton fibers	47.4	8.7	34.5	5.8	26.6	3.9	22.0	3.3	39.2	4.6	50.3	5.2	34.7	3.3	34.7	3.3	34.7	3.3	34.7	3.3	34.7	3.3	34.7	3.3
Consumer goods	107.8	19.8	117.0	19.6	135.9	19.7	123.4	18.4	171.7	20.1	169.1	17.4	186.8	18.6	186.8	18.6	186.8	18.6	186.8	18.6	186.8	18.6	186.8	18.6
Food	70.0	12.9	77.4	13.0	96.1	13.9	85.0	12.7	126.4	14.8	117.1	12.1	158.1	14.9	168.1	14.9	168.1	14.9	168.1	14.9	168.1	14.9	168.1	14.9
Grain	47.5	8.8	52.1	9.1	68.2	9.9	63.1	9.4	99.1	11.6	85.3	8.8	128.2	12.1	128.2	12.1	128.2	12.1	128.2	12.1	128.2	12.1	128.2	12.1
Other consumer goods	37.8	7.0	39.6	6.7	39.8	5.8	38.4	5.7	45.3	5.3	51.9	5.3	49.2	4.6	53.7	4.9	53.7	4.9	53.7	4.9	53.7	4.9	53.7	4.9
Furs and pelts	35.6	6.6	36.2	6.1	36.7	5.2	34.1	5.1	39.9	4.7	44.2	4.5	41.1	3.9	46.2	4.2	46.2	4.2	46.2	4.2	46.2	4.2	46.2	4.2
Other merchandise	68.4	12.6	75.8	12.7	83.1	12.0	93.4	13.9	120.1	14.0	146.1	12.1	128.4	12.1	122.0	11.0	122.0	11.0	122.0	11.0	122.0	11.0	122.0	11.0
Unspecified	52.4	9.7	35.8	6.0	26.9	3.9	21.6	4.1	45.2	5.3	39.1	4.0	65.6	6.2	65.6	6.2	65.6	6.2	65.6	6.2	65.6	6.2	65.6	6.2

¹ Because of rounding, components may not add to the totals shown.

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TABLE X-A-9.—*Commodity composition of Soviet imports from the industrial West, 1955-52*
 [In millions of current U.S. dollars and percent of total]

	1955	1956	1957	1958	1959	1960	1961	1962
	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total imports 1	420.6	100.0	578.8	100.0	672.5	100.0	692.2	100.0
Machinery and equipment.....	181.5	42.1	229.2	39.6	217.3	32.3	194.1	31.2
Chemical equipment.....	101.4	23.5	145.7	25.2	145.3	14.5	145.1	19.5
Transport equipment.....	53.4	12.4	123.0	21.3	146.3	21.8	161.9	26.0
Base metals and manufactures.....	12.3	2.9	12.8	104.2	15.5	106.3	17.1	175.9
Ferrous metals.....	8.1	1.9	65.9	11.4	88.8	13.2	97.6	15.7
Rolled ferrous metals.....	1.3	.3	2.6	4	5.3	8	1.1	1.2
Pipes.....	41.1	9.5	49.1	8.5	42.1	6.3	55.6	8.9
Nonferrous metals.....	40.2	9.3	45.9	7.9	40.6	6.0	54.1	8.7
Copper.....	48.9	11.4	63.5	11.0	77.4	11.6	63.4	10.2
Wood and wood products.....	29.6	6.9	40.7	7.0	61.2	9.1	50.7	8.3
Textile raw materials and semi-factories.....	18.4	4.3	20.2	3.5	34.2	5.1	50.7	8.1
Wool fibers.....	7.3	1.7	15.4	2.7	35.0	2.2	17.1	2.7
Synthetic fibers.....	43.1	10.0	64.3	11.1	64.6	9.6	71.5	11.5
Consumer goods.....	28.7	6.7	54.2	9.4	67.9	10.1	70.0	11.3
Other merchandise.....	45.5	10.6	3.9	.7	37.8	5.6	10.6	1.7
Unspecified.....								

¹ Because of rounding, components may not add to the totals shown.

TABLE X-A-10.—*Commodity composition of Soviet exports to underdeveloped countries, 1955-62*

	1955	1956	1957	1958	1959	1960	1961	1962
	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total exports ¹	112.3	100.0	179.5	100.0	282.8	100.0	389.3	100.0
Machinery and equipment	5.4	4.8	23.4	13.0	87.7	31.0	160.5	41.2
Complete plants	1.1	1.0	7.6	4.2	47.2	16.7	112.3	32.8
Petroleum and petrolem products	31.0	28.4	39.3	21.9	78.2	20.1	80.2	23.3
Rolled ferrous metals	16.2	14.4	43.5	24.2	49.9	17.6	29.2	8.6
Wood and wood products	16.3	13.6	16.4	9.1	45.6	16.1	30.5	7.8
Food	10.5	9.4	25.0	13.9	40.0	14.1	45.6	11.7
Other merchandise	28.8	25.7	31.7	17.7	36.4	12.9	38.1	9.8
Unspecified	4.1	3.7	.2	.1	2.3	.8	2.9	.7

¹ Because of rounding, components may not add to the totals shown.

TABLE X-A-11.—*Commodity composition of Soviet imports from underdeveloped countries, 1955-62*

	1955	1956	1957	1958	1959	1960	1961	1962
	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total imports ¹	210.4	100.0	296.5	100.0	435.3	100.0	481.6	100.0
Cotton	18.9	9.0	53.5	18.0	122.6	28.2	135.2	28.1
Natural rubber	25.5	12.1	96.8	32.6	67.6	15.5	131.4	27.3
Food	95.8	45.6	80.4	27.1	143.0	32.8	91.9	19.1
Nonferrous metals	47.2	22.7	65.4	22.1	100.9	23.2	121.8	25.3
Other merchandise	22.1	10.6	.1	(2)	1.1	.3	1.2	.2

¹ Because of rounding, components may not add to the totals shown.

² Negligible.

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TABLE X-A-12.—Trends in foreign trade between the U.S.S.R. and selected free world countries, 1955-62.¹
 [In millions of current U.S. dollars]

	1955	1956	1957	1958	1959	1960	1961	1962
Free world, total.....	1,345.9	1,762.6	2,189.0	2,268.7	2,600.5	3,004.5	3,369.0	4,012.5
Industrial West.....	974.3	1,176.0	1,362.6	1,291.8	1,612.0	2,041.3	2,147.6	2,369.7
Of which:								
Finland.....	224.0	261.0	315.7	254.4	286.6	283.4	278.9	395.4
United Kingdom.....	240.3	222.6	288.2	218.5	266.6	300.6	355.0	329.6
West Germany.....	63.1	109.9	133.2	137.7	209.4	318.0	288.1	338.8
France.....	95.8	120.2	114.5	167.7	168.3	203.7	189.9	288.4
Italy.....	33.8	59.9	74.5	73.9	130.8	188.0	226.2	230.0
Sweden.....	45.5	60.7	56.6	58.3	86.0	90.6	103.2	120.6
Belgium.....	39.3	61.3	58.8	39.2	37.0	51.4	67.6	78.8
Netherlands.....	60.3	51.8	65.7	74.7	79.8	69.9	75.9	90.0
United States.....	24.4	32.0	26.1	30.9	43.5	84.6	75.0	44.4
Underdeveloped countries.....	322.7	476.0	718.1	870.9	865.7	920.4	1,091.4	1,181.7
Of which:								
United Arab Republic (Egypt).....	26.4	88.8	182.1	194.7	180.6	191.1	204.9	176.3
India.....	11.7	58.7	126.7	180.9	128.5	115.6	162.3	186.4
Malaya.....	21.8	84.3	49.4	118.0	127.6	113.7	171.6	163.3
Afghanistan.....	24.5	33.4	38.8	35.7	44.0	48.9	59.1	62.8
Argentina.....	52.1	32.1	25.5	33.2	44.7	35.7	30.4	17.8
Iran.....	41.6	34.4	50.2	53.9	36.7	37.0	36.4	32.6
Indonesia.....	3.8	13.1	25.5	38.8	26.8	47.7	65.2	97.2
Other countries.....	48.9	110.6	108.3	106.0	122.8	42.8	130.0	461.1

¹ Because of rounding, components may not add to the totals shown.

TABLE X-A-13.—*Total Soviet economic credits and grants extended to non-Communist underdeveloped countries, Jan 1, 1954, to Dec 31, 1963*¹

<i>Area and recipient country</i>	[Millions of current U.S. dollars]
Total	² 3,377
Latin America: Argentina	100
Middle East	962
Iran	39
Iraq	184
Syrian Arab Republic	150
Turkey	10
United Arab Republic (Egypt)	553
Yemen	26
Africa	524
Algeria	101
Ethiopia	102
Ghana	89
Guinea	70
Mali	55
Somali Republic	57
Sudan	22
Tunisia	28
Asia	1,788
Afghanistan	500
Burma	14
Cambodia	21
Ceylon	30
India	811
Indonesia	369
Nepal	10
Pakistan	33
Europe: Iceland	3

¹ Data for 1963 are preliminary.

² Actual drawings under these credits and grants during this period totaled \$1.2 billion.

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TABLE X-A-14.—*Soviet imports from the underdeveloped countries,¹ 1955-62*
 [Millions of current U.S. dollars]

Area and country	1955	1956	1957	1958	1959	1960	1961	1962
Total	210.4	296.5	435.3	481.6	522.2	574.8	584.1	614.0
Latin America	78.0	43.1	88.3	67.5	56.5	35.6	50.7	74.0
Argentina	28.1	13.0	20.9	16.0	27.9	21.7	19.9	9.8
Brazil	1.9	3.1	2.2	0.9	4.8	9.3	24.0	35.8
Cuba	35.8	14.7	47.1	15.6	7.4	(1)	(1)	(1)
Mexico	2.2	(2)	(2)	2	1.3	3.3	.3	7.3
Peru	0	0	0	0	0	0	2.4	5.8
Uruguay	10.0	12.3	18.1	24.8	15.1	1.3	4.1	15.3
Middle East	44.9	83.7	152.4	188.2	141.4	181.9	152.7	134.6
Cyprus	0	0	0	0	0	.6	1.6	1.6
Greece	2.3	6.3	9.6	16.9	12.2	19.0	16.9	21.7
Iran	13.1	15.1	18.6	26.4	18.8	10.0	18.3	16.4
Iraq	.3	0	0	(3)	2.3	3.4	4.7	3.8
Israel	1.9	2.0	(2)	(2)	(2)	(2)	(2)	(2)
Lebanon	.9	1.8	1.6	2.1	3.9	3.9	3.8	4.0
Libya	0	0	0	.3	0	.4	.6	.2
Syrian Arab Republic	0	1.6	5.4	23.3	6.1	7.8	4.3	6.9
Turkey	5.1	6.6	5.4	11.4	4.8	5.2	4.9	5.4
United Arab Republic (Egypt)	15.3	50.3	110.9	107.1	92.7	121.3	96.2	73.0
Yemen	0	0	.9	.7	.6	1.3	1.4	1.6
Africa	16.5	11.3	32.8	13.1	76.0	79.6	51.3	57.9
Algeria	0	0	0	.1	0	0	(3)	(3)
Cameroon	0	0	.1	6.6	8.4	.2	0	(2)
Ethiopia	0	.2	2.8	1.0	.7	.5	.7	1.2
Federation of Rhodesia and Nyasaland	0	0	0	0	28.6	26.4	13.2	13.6
Ghana	11.6	8.2	18.9	2.7	8.2	21.7	6.8	16.7
Guinea	0	0	0	0	.8	2.2	4.2	2.7
Ivory Coast	2.6	2.0	2.4	0	7.7	5.4	0	(2)
Mali	0	0	0	0	0	0	3.8	4.3
Morocco	.2	.9	5.2	1.7	1.3	4.0	5.2	6.0
Nigeria	0	0	.2	.3	7.3	7.0	.1	(2)
Somali Republic	0	0	0	0	0	0	0	.3
Sudan	0	0	2.9	0	5.0	5.8	10.4	10.7
Togo	0	0	0	0	0	0	0	.2
Tunisia	0	0	.3	.7	1.0	1.6	2.8	2.2
Uganda	0	0	0	0	7.0	4.9	4.1	(2)
Asia	57.6	143.2	145.7	204.9	229.2	252.7	322.1	334.4
Afghanistan	10.9	15.1	20.7	12.7	15.6	16.9	19.7	25.3
Burma	16.8	12.2	9.1	0	4.0	5.0	2.4	12.3
Cambodia	0	0	0	0	0	3.0	6.2	6.1
Ceylon	0	0	.2	4.3	4.7	8.6	9.0	6.1
India	.4	18.3	42.0	50.9	60.6	68.4	66.9	71.7
Indonesia	3.7	12.9	19.8	11.6	11.0	31.4	33.9	38.7
Malaya	2.8	84.0	48.8	118.0	126.7	111.6	169.6	161.0
Nepal	0	0	0	0	0	0	.3	0
Pakistan	0	.7	5.1	7.4	3.7	4.4	4.3	3.9
Thailand	0	.6	0	0	2.9	3.4	9.8	9.3
Europe	13.4	15.2	16.1	17.9	19.1	25.0	7.3	12.8
Iceland	10.0	12.4	13.8	11.0	12.3	10.6	5.2	11.8
Portugal	3.4	2.8	2.3	1.9	1.8	2.6	(2)	(2)
Spain	0	0	0	5.0	5.0	11.8	2.1	1.0

¹ Imports are valued f.o.b. Because of rounding, components may not add to the totals shown. Excludes Yugoslavia for all years and Cuba for 1960-62. Imports from Cuba and Yugoslavia were as follows (in millions of current U.S. dollars): From Cuba: 1960, 103.8; 1961, 311.9; 1962, 234.0. From Yugoslavia: 1955, 17.4; 1956, 49.7; 1957, 56.9; 1958, 50.9; 1959, 53.1; 1960, 53.1; 1961, 54.6; 1962, 46.0.

² Not reported.

³ Less than \$50,000.

Source: Official Soviet foreign trade publications.

TABLE X-A-15.—*Soviet exports to the underdeveloped countries,¹ 1955-62*
 [Millions of current U.S. dollars]

Area and country	1955	1956	1957	1958	1959	1960	1961	1962
Total.....	112.3	179.5	282.8	389.3	343.5	345.6	507.3	567.7
Latin America.....	24.3	22.0	4.8	23.4	27.5	31.9	29.6	38.4
Argentina.....	24.0	10.1	4.7	17.2	16.8	14.0	10.6	8.0
Brazil.....	0	1	0	0	1.0	15.8	18.3	30.1
Cuba.....	0	0	0	0	0	(1)	(1)	(1)
Mexico.....	0	0	0	.6	.4	.8	.1	.1
Peru.....	0	0	0	0	0	0	0	0
Uruguay.....	.3	2.8	.1	5.6	9.3	1.3	.6	.2
Middle East.....	53.7	80.2	142.8	150.2	172.2	162.5	217.6	211.2
Cyprus.....	.3	0	0	0	0	.6	1.4	1.1
Greece.....	4.2	7.2	12.2	14.0	16.0	25.8	21.1	20.7
Iran.....	22.4	19.2	31.7	27.4	18.0	18.0	18.1	16.1
Iraq.....	0	0	0	(2)	23.3	20.2	37.3	52.0
Israel.....	6.8	5.9	(3)	(3)	(3)	(3)	(3)	(3)
Lebanon.....	1.3	1.7	2.2	1.1	3.3	4.3	4.7	4.3
Libya.....	0	0	0	.2	0	1.0	1.4	1.9
Syrian Arab Republic.....	.3	1.6	4.3	15.2	15.1	11.0	17.0	5.2
Turkey.....	7.4	6.0	9.0	9.4	5.6	8.2	5.8	4.3
United Arab Republic (Egypt).....	11.0	38.4	82.2	87.7	88.0	60.8	108.7	103.3
Yemen.....	0	.2	1.2	1.2	2.0	3.6	2.1	2.3
Africa.....	2.5	8.7	6.6	4.7	9.2	20.0	68.5	58.7
Algeria.....	.9	1.8	3.8	2.0	1.3	2.3	1.4	(3)
Cameroon.....	0	0	0	0	0	0	0	(3)
Ethiopia.....	0	0	.2	.7	.6	.9	.9	.9
Ghana.....	0	0	0	0	0	5.6	15.4	9.0
Guinea.....	0	0	0	0	.9	5.8	27.2	20.0
Mali.....	0	0	0	0	0	0	8.6	8.6
Morocco.....	1.4	1.4	.9	1.1	1.7	5.8	3.3	5.7
Nigeria.....	0	0	0	0	0	(2)	(2)	(3)
Somali Republic.....	0	0	0	0	0	0	(2)	.9
Sudan.....	2	.4	.7	.3	3.0	5.4	9.3	10.4
Togo.....	0	0	0	0	0	0	1	.4
Tunisia.....	0	.1	0	.6	.8	3.2	2.3	1.9
Asia.....	21.5	63.6	118.0	186.2	118.4	106.1	180.4	250.1
Afghanistan.....	13.6	18.2	18.1	23.1	28.3	32.0	39.4	39.4
Burma.....	.2	4.3	6.4	2.6	1.6	1.8	3.9	5.9
Cambodia.....	0	0	(2)	.4	1.3	2.1	1.6	2.2
Ceylon.....	0	(2)	(2)	.6	.6	1.0	1.8	10.1
India.....	7.3	40.4	84.7	130.0	68.0	47.1	95.4	124.8
Indonesia.....	.1	.2	6.7	27.2	15.8	16.2	31.3	58.6
Malaya.....	0	.3	.7	0	0	2.1	2.0	2.2
Nepal.....	0	0	0	0	0	0	.3	.8
Pakistan.....	.3	.1	1.7	2.0	1.0	2.4	3.0	5.1
Thailand.....	0	.1	.7	.3	.9	1.4	1.7	1.0
Europe.....	10.3	10.0	11.6	18.8	16.2	16.1	11.2	9.2
Iceland.....	10.3	10.0	11.6	12.3	12.0	10.6	9.3	8.6
Portugal.....	0	0	0	.9	1.3	2.2	0	(3)
Spain.....	0	0	0	5.6	2.0	3.3	1.9	.6

¹ Exports are valued f.o.b. Because of rounding, components may not add to the totals shown. Excludes Yugoslavia for all years and Cuba for 1960-62. Exports to Cuba and Yugoslavia were as follows (in millions of current U.S. dollars): To Cuba: 1960, 70.8; 1961, 287.0; 1962, 370.8. To Yugoslavia: 1955, 10.4; 1956, 69.1; 1957, 73.1; 1958, 81.1; 1959, 46.2; 1960, 55.1; 1961, 35.9; 1962, 72.3.

² Less than \$50,000.

³ Not reported.

Source: Official Soviet foreign trade publications.

Part B—East-West Trade

TABLE X-B-1.—*Free world trade with the European Soviet bloc, 1961-62*
[In millions of dollars]

Period	U.S.S.R.	European satellites
Free world exports (f.o.b.):		
1961.....	1,524.8	2,313.0
1962.....	1,770.5	2,322.1
Percentage change.....	+16.1	+0.4
Free world imports (c.i.f.):		
1961.....	1,593.6	2,259.7
1962.....	1,753.8	2,318.1
Percentage change.....	+10.1	+2.6
Free world trade, total:		
1961.....	3,118.4	4,572.7
1962.....	3,524.3	4,640.2
Percentage change.....	+13.0	+1.5

NOTE.—Free world trade does not include the trade of Cuba.
European satellites include Albania, Bulgaria, Czechoslovakia, Soviet Zone of Germany, Hungary, Poland, and Rumania.

Source: Official trade statistics of free world countries.

Prepared by International Trade Analysis Division, Bureau of International Commerce, U.S. Department of Commerce, January 1964.

TABLE. X-B-2.—*Free world trade with the European Soviet bloc, by country groups and areas, 1961-62 and January-June 1963*

[In millions of dollars]

Groups and areas	U.S.S.R.	European satellites
Exports, total:		
1961.....	1,524.8	2,313.0
1962.....	1,770.5	2,322.1
COCOM countries, total:		
1961.....	821.4	1,354.5
1962.....	897.5	1,397.7
January to June 1963.....	422.3	708.8
European COCOM countries:		
1961.....	680.2	1,185.2
1962.....	724.8	1,233.6
January to June 1963.....	346.9	609.3
Other Europe:		
1961.....	282.6	459.7
1962.....	391.9	453.7
Near East:		
1961.....	110.0	169.1
1962.....	94.7	140.9
Africa:		
1961.....	28.8	49.3
1962.....	33.0	60.6
Far East, except Japan:		
1961.....	224.5	120.5
1962.....	254.0	144.2
Oceania:		
1961.....	23.1	46.2
1962.....	32.1	32.7
Latin America:		
1961.....	34.4	113.7
1962.....	66.7	92.3
Imports, total:		
1961.....	1,593.6	2,259.7
1962.....	1,753.8	2,318.1
COCOM countries, total:		
1961.....	952.4	1,289.4
1962.....	1,015.7	1,344.8
January to June 1963.....	477.1	714.6
European COCOM countries:		
1961.....	781.0	1,194.0
1962.....	850.6	1,252.4
January to June 1963.....	399.3	686.6
Other Europe:		
1961.....	319.7	458.5
1962.....	365.5	489.0
Near East:		
1961.....	143.1	163.5
1962.....	112.8	190.8
Africa:		
1961.....	23.8	87.8
1962.....	40.7	77.4
Far East, except Japan:		
1961.....	119.7	138.9
1962.....	187.1	135.8
Oceania:		
1961.....	2.6	12.0
1962.....	1.6	11.9
Latin America:		
1961.....	32.3	109.6
1962.....	40.4	68.4

NOTE.—The above country group and area totals include values for all the countries in the free world, for which figures are available, that are known to have exported to or imported from Sino-Soviet bloc countries \$1,000,000 or more in any year since 1955. Figures for 1962 are preliminary and in some cases incomplete. The Coordinating Committee in Paris (COCOM) coordinates strategic trade controls of the following countries: Total COCOM—United States, Canada, Japan, and European COCOM, i.e., Belgium, Denmark, France, Federal Republic of Germany, Greece, Italy, Luxembourg, Netherlands, Norway, Portugal, Turkey, and United Kingdom.

Free world trade does not include the trade of Cuba.

Source: Official trade statistics of free world countries.

Prepared by International Trade Analysis Division, Bureau of International Commerce, U.S. Department of Commerce, January 1964.

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TABLE X-B-3.—*Exports of selected free world countries to the world and to the European Soviet bloc, 1960-63*

[Millions of dollars]

Exporting country and year	World	U.S.S.R.		European satellites	
		Value	Percent of world	Value	Percent of world
United States:					
1960	20,557.8	30.3	0.2	154.6	0.8
1961	20,962.1	45.6	.2	87.7	.4
1962	21,628.3	20.1	.1	105.0	.5
January to October 1963	18,949.9	16.9	.1	101.6	.5
Australia:					
1960	2,054.7	29.8	1.5	40.4	2.0
1961	2,374.4	17.7	.7	39.2	1.7
1962	2,362.4	29.6	1.3	26.8	1.1
January to October 1963	2,258.0	26.9	1.2	25.3	1.1
Austria:					
1960	1,120.3	39.3	3.5	114.4	10.2
1961	1,202.4	43.2	3.6	132.9	11.1
1962	1,263.5	53.9	4.3	138.6	10.6
January to August 1963	847.7	38.5	4.5	87.9	10.4
Belgium-Luxembourg:					
1960	3,791.2	19.0	.5	77.4	2.0
1961	3,924.4	27.3	.7	66.0	1.7
1962	4,323.6	25.6	.6	60.9	1.4
January to September 1963	3,519.8	9.7	.3	43.7	1.2
Brazil:					
1960	1,268.8	13.3	1.0	57.7	4.5
1961	1,403.0	19.2	1.4	55.6	4.0
1962	1,214.2	39.0	3.2	34.2	3.5
January to July 1963	709.1	23.0	3.2	29.4	4.1
Canada:					
1960	5,428.8	8.5	.2	28.3	.5
1961	5,656.6	24.2	.4	69.6	1.2
1962	5,775.8	3.1	.1	42.5	.7
January to October 1963	5,090.2	20.6	.4	33.4	.7
Denmark:					
1960	1,471.0	16.4	1.1	41.9	2.8
1961	1,514.3	5.4	.4	44.9	3.0
1962	1,629.0	23.8	1.5	57.7	3.5
January to October 1963	1,509.2	29.6	2.0	48.8	3.2
France:					
1960	6,868.3	115.6	1.7	106.0	1.5
1961	7,226.3	109.9	1.5	125.0	1.7
1962	7,361.0	138.1	1.5	129.1	1.8
January to September 1963	5,875.5	60.9	.9	98.4	1.7
Germany, Federal Republic of:					
1960	11,643.3	185.3	1.6	483.5	4.2
1961	12,903.9	204.0	1.6	489.2	3.8
1962	13,477.2	206.8	1.5	510.9	3.8
January to September 1963	10,576.0	117.6	1.1	356.6	3.4
Ghana:					
1960	204.2	20.4	6.9	.7	.2
1961	292.8	8.6	2.9	1.7	.6
1962	291.1	13.5	4.6	10.4	3.6
January to July 1963	161.3	16.5	10.2	9.2	5.7
Greece:					
1960	203.2	18.8	9.3	26.1	12.8
1961	223.3	18.8	8.4	33.5	15.0
1962	248.6	19.2	7.7	31.2	12.6
January to August 1963	159.2	20.0	2.6	23.8	14.9
India:					
1960	1,331.0	62.8	4.7	33.2	2.5
1961	1,386.2	65.3	4.7	46.7	3.4
1962	1,414.6	75.3	5.3	88.0	6.2
January to August 1963	1,040.7	65.9	6.3	64.2	6.2
Indonesia:					
1960	840.4	28.1	3.3	6.8	.8
1961	783.6	31.5	4.0	9.5	1.2
January to October 1962	560.5	27.0	4.8	9.2	1.6
Iran: ¹					
1960	96.9	17.6	18.2	10.4	10.7
1961	130.3	17.7	13.6	15.6	12.0
1962	116.1	17.1	14.7	12.8	11.0
Iraq: ¹					
1960	30.8	1.1	3.6	1.4	4.5
1961	37.1	2.2	5.9	1.1	3.0
1962	65.5	3.3	5.5	2.2	3.4
January to June 1963	29.0	.6	1.7	.7	2.4

¹ Excludes exports of petroleum and products.

TABLE X-B-3.—*Exports of selected free world countries to the world and to the European Soviet bloc, 1960-63—Continued*

[Millions of dollars]

Exporting country and year	World	U.S.S.R.		European satellites	
		Value	Percent of world	Value	Percent of world
Italy:					
1960	3,648.4	78.5	2.2	93.3	2.6
1961	4,187.7	89.5	2.1	126.4	3.0
1962	4,666.1	102.5	2.2	137.8	3.0
January to September 1963	3,691.6	88.2	2.4	116.6	3.2
Japan:					
1960	4,054.5	60.0	1.5	3.6	.1
1961	4,235.6	65.4	1.5	11.9	.3
1962	4,016.6	149.4	3.0	16.6	.3
January to September 1963	3,834.7	105.9	2.8	12.0	.3
Malaya, Federation of, and Singapore:					
1960	1,538.2	53.9	3.5	61.6	4.0
1961	1,412.8	89.9	6.3	35.5	2.5
1962	1,428.6	110.6	7.7	20.6	1.4
January to June 1963	740.4	68.6	9.3	15.5	2.1
Netherlands:					
1960	4,028.4	11.8	.3	50.8	1.3
1961	4,306.4	19.8	.5	58.2	1.4
1962	4,583.9	32.0	.7	44.4	1.0
January to September 1963	3,647.7	18.2	.5	36.4	1.0
Norway:					
1960	880.8	12.9	1.5	25.6	2.9
1961	931.2	12.5	1.3	24.9	2.7
1962	972.9	10.4	1.1	27.2	2.8
January to August 1963	665.9	8.1	1.2	21.9	3.3
Sudan:					
1960	182.0	5.8	3.2	8.4	4.6
1961	178.6	9.8	5.4	7.4	4.1
1962	226.8	10.3	4.5	11.5	5.1
January to March 1963	65.2	6.5	11.8	4.0	7.2
Sweden:					
1960	2,504.3	38.2	1.5	70.8	2.8
1961	2,743.1	43.8	1.6	71.4	2.6
1962	2,922.5	78.7	2.7	75.2	2.6
January to September 1963	2,270.1	42.5	1.9	60.0	2.6
United Arab Republic (Egypt):					
1960	568.0	88.7	15.6	111.0	19.5
1961	485.2	73.0	15.0	122.8	25.3
1962	404.8	62.5	15.4	78.1	19.3
January to June 1963	292.8	57.9	19.8	58.1	19.8
United Kingdom:					
1960	10,348.7	149.3	1.4	122.5	1.2
1961	10,752.3	194.6	1.8	187.2	1.7
1962	11,058.6	161.0	1.8	207.8	1.9
January to September 1963	8,728.9	136.7	1.6	149.7	1.7

NOTE.—In this table, exports include reexports for Australia, Denmark, Ghana, India, Federation of Malaya and Singapore, Norway, Sudan, Sweden, United Kingdom, and the United States.

Source: Official statistics of listed countries.

Prepared by International Trade Analysis Division, Bureau of International Commerce, U.S. Department of Commerce, January 1964.

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 122 ANNUAL ECONOMIC INDICATORS FOR THE U.S.S.R.

TABLE X-B-4.—*Imports of selected free world countries from the world and from the European Soviet bloc, 1960–63*

[Millions of dollars]

Importing country and year	World	U.S.S.R.		European satellites	
		Value	Percent of world	Value	Percent of world
United States:					
1960	15,017.5	22.6	0.2	58.2	0.4
1961	14,713.0	23.2	.2	57.9	.4
1962	16,398.5	16.2	.1	62.8	.4
January to October 1963	14,210.6	17.5	.1	51.1	.4
Australia:					
1960	2,367.6	1.3	.1	18.4	.6
1961	2,034.6	2.4	.1	9.6	.5
1962	2,287.4	1.4	.1	10.5	.5
January to October 1963	2,084.6	1.1	.1	10.0	.5
Austria:					
1960	1,415.8	40.3	2.8	118.0	8.3
1961	1,484.7	45.8	3.1	105.5	7.8
1962	1,551.9	43.8	2.8	127.4	8.2
January to August 1963	1,092.4	36.2	3.3	91.7	8.4
Belgium-Luxembourg:					
1960	3,969.4	28.6	.7	48.9	1.2
1961	4,219.0	35.3	.8	51.9	1.2
1962	4,555.4	46.0	1.0	55.7	1.2
January to September 1963	3,695.8	37.5	1.0	44.1	1.2
Brazil:					
1960	1,462.1	17.6	1.2	62.0	4.2
1961	1,460.1	19.2	1.3	51.0	3.5
1962	1,475.0	31.8	2.2	33.1	2.2
January to July 1963	812.9	27.0	3.3	24.2	3.0
Canada:					
1960	5,648.6	3.3	.1	10.1	.2
1961	5,694.2	2.7	(1)	13.0	.2
1962	5,862.8	1.7	(1)	14.0	.2
January to August 1963	3,915.3	.9	(1)	9.9	.3
Denmark:					
1960	1,799.5	29.3	1.6	49.6	2.8
1961	1,867.2	28.7	1.5	50.4	2.7
1962	2,122.5	24.3	1.1	62.3	2.9
January to October 1963	1,731.7	22.4	1.3	49.5	2.9
France:					
1960	8,288.8	94.7	1.5	60.0	1.0
1961	8,679.6	97.3	1.5	69.2	1.0
1962	7,516.7	110.7	1.5	86.8	1.2
January to September 1963	6,296.4	101.3	1.6	78.6	1.2
Germany, Federal Republic of:					
1960	10,369.0	186.4	1.3	511.3	4.9
1961	11,174.9	142.9	1.3	503.6	4.5
1962	12,508.1	186.8	1.5	514.0	4.1
January to September 1963	9,758.1	153.9	1.6	380.6	3.9
Ghana:					
1960	362.9	1.6	.4	10.4	2.9
1961	394.2	6.2	1.6	12.5	3.2
1962	333.4	5.1	1.5	13.2	4.0
January to July 1963	206.0	6.0	2.9	14.1	6.8
Greece:					
1960	702.0	28.3	4.0	27.1	3.9
1961	714.0	19.9	2.8	30.4	4.3
1962	701.3	20.3	2.9	34.4	4.9
January to August 1963	490.7	15.4	3.1	24.8	5.1
India:					
1960	2,293.1	29.0	1.3	39.8	1.7
1961	2,263.9	54.5	2.4	77.5	3.4
1962	2,230.4	122.5	5.5	89.6	4.0
January to August 1963	1,413.1	75.0	5.3	61.8	4.4
Indonesia:					
1960	574.2	6.7	1.2	7.5	1.3
1961	794.0	11.5	1.4	27.4	3.4
Iran: ²					
1960	580.5	17.3	3.0	13.1	2.3
1961	599.3	18.3	3.1	15.3	2.6
1962	581.6	16.4	3.1	10.6	2.0
Iraq:					
1960	390.0	7.4	1.9	23.4	6.0
1961	407.9	21.2	5.2	22.8	5.6
1962	360.0	24.3	6.8	25.2	7.0
January to June 1963	156.7	14.6	9.3	10.1	6.4

¹ Less than 0.05 percent.

² Excludes duty-free imports in 1960 and 1961.

TABLE X-B-4.—*Imports of selected free world countries from the world and from the European Soviet bloc, 1960-63—Continued*

[Millions of dollars]

Importing country and year	World	U.S.S.R.		European satellites	
		Value	Percent of world	Value	Percent of world
Italy:					
1960	4,725.1	125.8	2.7	139.1	2.9
1961	5,222.4	150.1	2.9	159.1	3.0
1962	6,056.4	165.8	2.7	165.3	2.7
January to September 1963	5,633.1	132.4	2.4	182.5	3.3
Japan:					
1960	4,491.1	87.0	1.9	7.0	.2
1961	5,810.4	145.4	2.5	24.6	.4
1962	5,637.0	147.3	2.6	16.6	.3
January to September 1963	4,874.5	117.7	2.4	16.1	.3
Malaya, Federation of, and Singapore:					
1960	1,480.7	2.2	.1	4.7	.3
1961	1,496.2	2.8	.2	8.8	.6
1962	1,571.7	3.3	.2	6.4	.1
January to June 1963	830.1	2.0	.2	3.9	.5
Netherlands:					
1960	4,531.4	44.4	1.0	55.0	1.2
1961	5,110.1	39.3	.8	64.9	1.3
1962	5,346.7	36.4	.7	62.7	1.2
January to September 1963	4,338.4	37.5	.9	52.2	1.2
Norway:					
1960	1,462.5	19.4	1.3	26.6	1.8
1961	1,616.0	19.5	1.2	28.8	1.8
1962	1,664.3	18.5	1.0	29.3	1.8
January to August 1963	1,179.5	14.7	1.2	18.8	1.6
Sudan:					
1960	180.9	6.5	3.6	8.0	4.4
1961	238.0	8.9	3.7	10.9	4.6
1962	266.6	8.4	3.3	14.6	5.7
January to March 1963	63.3	1.9	3.0	4.0	6.3
Sweden:					
1960	2,910.8	62.5	2.1	58.9	2.0
1961	2,927.2	63.0	2.2	64.0	2.2
1962	3,114.1	63.6	2.0	76.5	2.5
January to September 1963	2,428.9	57.3	2.4	53.6	2.2
United Arab Republic (Egypt):					
1960	667.7	65.8	9.9	75.7	11.3
1961	700.1	79.4	11.3	87.7	9.8
1962	760.5	65.3	7.8	87.6	11.7
January to June 1963	416.0	10.6	4.0	43.4	10.4
United Kingdom:					
1960	12,713.9	200.9	1.7	178.4	1.4
1961	12,306.4	238.1	1.9	198.0	1.6
1962	12,577.6	235.5	1.9	206.3	1.6
January to September 1963	9,908.2	176.4	1.8	161.9	1.6

Source: Official import statistics of listed countries.

Prepared by International Trade Analysis Division, Bureau of International Commerce, U.S. Department of Commerce, January 1964.

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TABLE X-B-5.—*Free world exports to the U.S.S.R. and European satellites, by selected commodities and commodity groups, 1961–62*

[In millions of dollars]

Commodity and commodity group	U.S.S.R.				European satellites			
	Free world		European COCOM countries		Free world		European COCOM countries	
	1961	1962	1961	1962	1961	1962	1961	1962
Exports, total	1,524.8	1,770.5	686.0	724.8	2,313.0	2,322.1	1,185.2	1,233.6
Food, beverages, and tobacco	115.7	175.0	24.8	40.5	338.5	407.5	128.6	164.1
Live animals and meat	2.6	28.4	2.0	19.9	43.8	69.4	23.2	42.2
Dairy products and eggs	3.9	3.9	2.6	2.6	16.1	11.4	11.0	8.3
Fish and preparations	7.3	12.5	1.0	1.8	26.8	30.0	15.6	19.0
Wheat and wheat flour	13.0	(1)	(2)	(3)	86.8	83.1	3.3	20.6
Rice	(2)	20.9	(2)	(2)	13.4	22.7	4.7	9.0
Barley	(2)	(2)	(2)	(2)	6.9	13.3	3.7	2.2
Cereals and preparations, other	1.1	(2)	(2)	(2)	6.7	7.7	1.1	.7
Fruit and vegetables	30.9	30.6	10.6	9.0	36.4	47.7	25.3	26.7
Coffee	15.7	16.4	(2)	(2)	20.6	20.4	.1	.5
Cocoa and preparations	9.0	17.9	(2)	(2)	13.5	15.4	2.1	1.6
Tea	18.3	24.2	(2)	(2)	.5	1.9	(2)	(2)
Food and beverages, other	4.5	3.9	.6	.5	31.6	47.8	13.5	11.6
Tobacco and manufactures	9.4	18.3	8.0	5.8	35.4	36.7	25.0	21.7
Crude materials	456.5	420.4	110.1	78.5	585.2	531.7	116.8	116.9
Hides, skins, and fur skins	23.1	30.2	1.9	2.5	65.0	62.4	16.8	14.4
Oilsseeds	.2	3.6	(2)	(2)	13.0	18.6	1.6	.9
Crude rubber	211.4	173.0	79.7	47.7	59.1	47.5	6.8	9.5
Wood, cork, and pulp	24.5	24.2	.9	.6	50.1	44.2	6.9	10.5
Wool and other animal hair	46.9	55.3	3.0	1.7	92.5	69.1	32.3	26.6
Cotton	99.6	97.6	2.3	4.9	180.6	139.0	12.2	12.6
Mannmade fibers	29.2	29.9	17.4	15.0	20.7	30.1	9.8	15.2
Textile fibers, other	5.5	4.4	.2	.3	37.5	25.2	14.2	11.4
Fertilizers and nonmetallic minerals, crude	3.1	6.0	1.8	3.8	22.4	27.7	4.9	4.1
Iron ore and concentrates	.1	(2)	(2)	(2)	41.8	42.0	1.8	1.8
Crude materials, other	6.9	6.3	2.9	2.0	22.5	25.9	9.5	9.9
Mineral fuels and related materials	.5	1.0	.2	.2	14.2	16.6	12.4	13.7
Fats and oils	33.9	17.4	7.9	5.3	28.1	37.1	13.1	16.9
Chemicals	46.6	61.5	34.2	50.7	189.6	183.2	143.6	137.0
Organic and inorganic chemicals	21.2	32.3	17.6	27.6	65.9	66.8	51.6	51.8
Dyeing, tanning, and coloring materials	4.9	4.5	2.0	2.5	29.7	30.2	18.0	18.5
Medicines and pharmaceuticals	1.3	2.0	1.0	1.0	15.9	17.0	11.7	12.5
Manufactured fertilizers	(1)	(2)	(2)	(2)	8.5	1.9	7.7	1.6
Plastic materials	12.7	12.3	9.8	11.4	36.2	37.7	28.3	31.0
Chemicals, other	6.5	10.4	3.8	8.2	33.4	29.6	26.3	21.6
Manufactured goods	377.0	475.7	205.9	276.1	655.7	607.0	449.2	415.5
Wood and cork manufactures; paper and products	47.2	42.8	1.6	1.9	47.2	39.6	13.5	12.6
Cotton yarn, fabrics, and manufactures	.5	5.4	.2	.6	19.5	14.5	10.7	5.9
Mannmade fiber, yarn, fabrics, and manufactures	17.1	35.6	5.5	14.8	29.8	32.0	24.1	25.9
Textile yarns, fabrics, and manufactures, other	23.3	19.2	4.6	4.9	15.2	19.0	6.1	5.2
Iron and steel plates and sheets	57.5	86.8	44.1	63.2	113.2	96.8	85.8	75.9
Iron and steel tubes, pipes, and fittings	92.3	121.4	77.7	107.7	90.5	78.7	79.1	66.1
Iron and steel and semimanufactures, other	23.5	48.7	25.2	31.4	142.7	112.1	102.8	75.9
Copper and semimanufactures	24.1	38.2	6.9	16.7	56.3	57.4	42.1	47.0
Base metals and manufactures, other	44.0	30.4	20.5	15.1	57.6	69.5	29.9	41.0
Professional and scientific instruments and apparatus	7.8	5.8	5.2	3.6	14.3	15.4	11.4	12.3
Manufactured goods, other	34.7	41.0	14.4	16.2	69.4	72.0	43.7	47.7
Machinery	396.7	427.6	275.4	233.6	373.6	410.0	279.9	309.8
Power-generating machinery	10.5	12.6	6.6	6.8	35.2	27.5	21.9	16.4
Metalworking machinery	27.1	20.4	19.4	15.8	29.1	50.6	23.2	43.5
Textile and leather machinery	47.5	23.6	27.3	15.3	22.3	33.6	20.3	30.8

¹ Less than \$50,000.

² None or negligible.

TABLE X-B-5.—*Free world exports to the U.S.S.R. and European satellites, by selected commodities and commodity groups, 1961-62—Continued*

[In millions of dollars]

Commodity and commodity group	U.S.S.R.				European satellites			
	Free world		European COCOM countries		Free world		European COCOM countries	
	1961	1962	1961	1962	1961	1962	1961	1962
Paper and pulp mill machinery.....	20.6	75.3	5.0	18.6	7.9	19.5	4.3	14.2
Heating and cooling equipment.....	55.5	97.4	41.7	51.1	20.3	21.2	17.5	17.7
Pumps and centrifuges.....	19.5	27.7	16.5	21.0	12.9	21.0	9.0	14.6
Mechanical handling equipment.....	11.3	12.0	6.8	8.3	8.5	10.7	4.9	8.1
Nonelectric machinery, other.....	135.3	91.4	110.7	61.8	141.3	128.0	112.5	95.9
Electric power machinery and switch-gear.....	20.6	24.9	16.3	16.0	33.5	29.4	24.0	18.4
Insulated wire and cable.....	23.2	24.0	3.1	3.4	13.4	14.0	5.0	7.8
Electric apparatus, other.....	25.6	18.3	22.0	14.0	49.2	54.5	37.3	42.4
Transport equipment.....	74.3	159.7	20.8	36.1	42.2	73.0	21.6	45.6
Railway vehicles.....	15.2	8.0	6.4	2.9	5.3	20.8	2.6	13.5
Ships and boats.....	56.9	147.9	13.4	32.3	22.1	38.6	7.5	19.4
Transport equipment, other.....	2.2	3.8	1.0	.9	14.8	13.6	11.5	12.7
All other merchandise ^a	23.6	23.2	6.7	3.8	85.9	56.0	20.0	14.1

^a The major part of the free world values for "All other merchandise" represents exports by countries for which commodity detail could not be shown above.

NOTE.—Because of limitations in original source materials, values of commodities and groups shown above are known to be somewhat understated and should not be considered exact measures of exports in each commodity group. Figures for 1962 are preliminary.

Source: Official export statistics of free world countries.

Prepared by International Trade Analysis Division, Bureau of International Commerce, U.S. Department of Commerce, January 1964.

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TABLE X-B-6.—*Free world imports from the U.S.S.R. and European satellites, by selected commodities and commodity groups, 1961-62*

[In millions of dollars]

Commodity and commodity group	U.S.S.R.				European satellites			
	Free world		European COCOM countries		Free world		European COCOM countries	
	1961	1962	1961	1962	1961	1962	1961	1962
Imports, total	1,593.6	1,753.8	781.0	850.6	2,259.7	2,318.1	1,193.9	1,252.4
Food, beverages, and tobacco	237.2	219.4	146.9	108.2	538.6	574.0	370.1	388.3
Live animals and meat	1.6	2.6	1.2	2.1	192.2	199.3	138.2	138.8
Butter	(1)	(1)	(1)	(1)	17.2	21.9	16.8	20.6
Eggs	(1)	(2)	(1)	(1)	56.6	45.7	45.5	35.2
Fish and preparations	13.3	13.8	9.5	11.5	3.1	3.3	2.5	2.6
Wheat	91.5	90.7	65.4	44.6	6.2	5.5	4.8	3.1
Barley	35.1	8.3	32.4	4.6	8.7	5.0	6.8	4.1
Corn	9.8	12.1	2.6	7.6	45.7	44.9	35.5	35.5
Cereals and preparations, other	12.3	18.1	5.6	10.3	19.5	24.4	7.3	14.5
Fruit and vegetables	.7	1.5	.2	.8	61.7	84.5	47.2	61.7
Sugar, sugar preparations, and honey	28.0	32.2	.1	2.2	96.3	97.6	45.4	41.9
Feedstuffs for animals	41.1	35.1	28.1	22.0	2.6	4.1	2.4	4.0
Food and beverages, other	1.8	2.2	.5	.5	18.0	19.9	9.4	12.1
Tobacco and manufactures	2.0	2.8	1.3	2.0	10.8	17.9	8.3	14.1
Crude materials	397.7	436.7	299.7	315.8	231.2	253.7	184.3	195.5
Fur skins, undressed	45.8	48.2	36.0	37.7	6.5	9.3	3.5	5.3
Oilseeds	.1	.1	(2)	.1	20.7	13.1	16.6	10.0
Wood and pulp	223.7	250.2	179.5	191.4	122.2	142.1	104.3	117.6
Wool and other animal hair	3.2	4.0	3.1	3.8	5.9	4.0	5.5	3.2
Cotton	34.8	35.6	20.8	24.4	3.4	1.9	3.3	1.9
Textile fibers, other	11.5	15.0	9.7	12.8	5.6	9.2	4.1	8.1
Fertilizers, crude	14.2	16.6	10.0	11.7	7.0	6.5	2.6	1.5
Nonmetallic minerals, other	17.3	17.2	11.7	11.5	18.2	19.2	10.3	9.9
Base metal ores and scrap	40.9	37.2	25.3	19.8	8.5	8.9	8.2	8.2
Bristles	2.3	1.5	1.6	1.1	1.2	.9	.7	.5
Feathers	(2)	(1)	(2)	(1)	8.4	10.0	7.0	8.4
Crude materials, other	3.9	5.1	2.0	1.5	23.6	28.6	18.2	20.9
Mineral fuels and related materials	440.0	499.6	199.8	220.2	310.4	342.6	198.7	222.8
Coal, coke, and briquettes	104.4	114.3	45.3	51.3	188.2	199.9	107.9	120.4
Crude petroleum	157.5	177.4	90.7	98.9	1.7	2.3	1.1	1.5
Gasoline and light oils	15.0	15.7	7.5	7.8	24.3	31.0	22.9	28.2
Fuel oils	147.5	173.6	60.0	57.2	78.0	87.4	57.0	62.0
Petroleum products, other	15.6	18.6	6.3	5.0	18.2	21.1	9.8	10.7
Fats and oils	4.1	8.6	2.5	7.4	17.6	17.3	10.8	8.7
Chemicals	51.9	51.6	20.2	18.5	168.0	162.6	82.5	77.4
Inorganic and organic chemicals	16.4	14.9	11.9	9.5	71.7	71.0	36.1	32.3
Mineral tar and crude coal-tar chemicals	10.3	3.8	2.0	2.0	16.3	11.6	11.9	9.5
Fertilizers, manufactured	18.8	26.3	3.8	3.9	37.7	36.3	12.8	15.3
Chemicals, other	6.4	6.6	2.5	3.1	42.3	43.7	21.7	20.3
Manufactured goods	257.3	316.2	94.2	166.2	511.8	532.7	245.0	255.0
Wood manufactures, paper, and paper manufactures	21.1	22.9	15.1	15.5	30.2	31.1	17.0	18.7
Cotton yarn, fabrics, and manufactures	16.3	9.9	1.0	.6	44.3	39.2	10.9	12.6
Mannmade fiber yarn, fabrics, and manufactures	1.1	.3	(2)	(1)	10.3	14.1	1.5	3.2
Textile yarns, fabrics, and manufactures, other	1.9	1.0	1.1	1.3	49.0	42.3	30.0	23.0
Glass, glassware, and pottery	1.1	1.0	.3	.4	39.5	43.3	21.0	23.5
Nonmetallic mineral manufactures, other	5.6	2.7	.3	(3)	25.1	29.4	11.8	10.9
Silver and platinum	24.2	27.2	10.9	15.0	4.0	4.2	3.8	3.5
Pig iron	48.6	51.5	13.0	29.4	16.7	10.3	6.6	6.8
Iron and steel ingots and other primary forms	18.0	68.1	10.8	62.2	17.2	12.9	12.7	8.5
Iron and steel girders, bars, and similar shapes	9.0	11.0	.6	.4	17.1	32.5	7.1	10.1
Iron and steel plates and sheets, uncoated	18.3	14.1	.4	1.3	23.3	31.4	3.2	9.0

See footnotes at end of table, p. 127.

TABLE X-B-6.—*Free world imports from the U.S.S.R. and European satellites, by selected commodities and commodity groups, 1961-62—Continued*

[In millions of dollars]

Commodity and commodity group	U.S.S.R.				European satellites			
	Free world		European COCOM countries		Free world		European COCOM countries	
	1961	1962	1961	1962	1961	1962	1961	1962
Iron and steel and semimanufactures, other	34.3	31.7	6.1	4.9	38.1	35.9	9.1	8.4
Aluminum	8.2	17.8	4.1	11.3	2.5	2.0	2.2	1.8
Zinc	17.0	13.5	13.6	10.1	0.6	10.0	5.0	7.6
Tin	4.6	.3	.8	(1)	(1)	(1)	(1)	(1)
Base metals and manufactures, other	15.3	22.9	7.5	4.9	30.1	30.6	12.0	13.5
Clothing and footwear	.8	1.0	.1	(1)	51.9	50.2	35.8	33.6
Professional and scientific instruments	2.2	2.2	.7	.5	15.3	16.1	7.1	8.0
Manufactured goods, other	13.8	15.3	7.8	8.4	90.6	97.2	48.2	52.3
Machinery	83.2	131.2	12.6	8.1	232.1	223.7	73.9	79.4
Power-generating machinery	8.0	7.8	.3	.2	12.3	10.1	2.2	2.6
Agricultural tractors	5.6	4.4	1.0	.4	15.9	12.6	2.4	2.9
Metalworking machinery	6.5	11.1	2.6	2.3	61.2	63.1	23.5	28.0
Textile and sewing machinery	3.5	6.6	3.2	.7	13.6	10.7	6.0	4.4
Construction and mining machinery	8.6	21.5	2	2.2	5.2	6.5	.5	.9
Electric machinery and apparatus	9.7	9.7	2.3	1.3	46.3	43.8	14.9	16.4
Machinery, other	41.3	70.1	3.0	1.0	77.6	76.0	24.4	24.2
Transport equipment	24.5	31.3	2.6	3.4	79.6	58.8	22.0	20.0
Railway vehicles	.9	1.1	(1)	(1)	20.7	8.3	(1)	.6
Road motor vehicles	19.3	20.0	2.6	3.3	40.0	32.5	16.5	13.0
Transport equipment, other	4.3	10.2	(1)	.1	18.0	18.0	5.5	6.4
All other merchandise ^a	97.7	59.2	2.5	2.8	170.4	152.7	6.6	5.3

¹ None or negligible.

^a Less than \$50,000.

^b The major part of the free world values for "all other merchandise" represents imports by countries for which commodity detail could not be shown above.

NOTE.—Because of limitations in original source materials, values of commodities and groups shown above are known to be somewhat understated and should not be considered exact measures of imports in each commodity group. Figures for 1962 are preliminary.

Source: Official import statistics of free world countries.

Prepared by International Trade Analysis Division, Bureau of International Commerce, U.S. Department of Commerce, January 1964.

SECTION XI
ECONOMIC INDICATORS FOR
THE SOVIET BLOC

TABLE XI-1.—*Gross national product of the Sino-Soviet bloc, 1959–62*
 [In billions of dollars]

Country	1959	1960	1961	1962
Sino-Soviet bloc.....	384	413	418	436
European Soviet bloc.....	299	322	336	353
U.S.S.R.....	214	231	240	253
Other European Soviet bloc countries ¹	85	91	96	100
Asian Soviet bloc.....	85	91	92	93
Communist China.....	82	88	79	80
Other Asian Soviet bloc countries ²	3	3	3	3

¹ Includes Albania, Bulgaria, Czechoslovakia, Hungary, Poland, Rumania, and the Soviet Zone of Germany.

² Includes Mongolia, North Korea, and North Vietnam.

Sources: Department of State Intelligence Reports, "Indicators of Economic Strength of Western Europe, Canada, United States, and Soviet Bloc, 1959–62."

TABLE XI-2.—*Intrabloc trade as percentage of total trade by countries of the Sino-Soviet bloc, 1959–62*

	Exports				Imports			
	1959	1960	1961	1962	1959	1960	1961	1962
Albania.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Bulgaria.....	85.2	82.0	81.3	(1)	77.2	82.1	82.5	(1)
Czechoslovakia.....	71.0	70.5	68.2	70.9	71.4	69.8	66.7	69.8
Hungary.....	68.1	67.1	70.3	(1)	70.2	68.3	66.7	(1)
Poland.....	57.7	59.6	59.2	59.8	68.0	63.5	61.8	63.4
Rumania.....	78.5	71.9	67.6	(1)	80.1	72.4	65.7	(1)
Soviet Zone of Germany.....	76.8	74.0	73.0	78.9	82.2	77.8	81.8	80.0
U.S.S.R.....	74.0	73.4	66.7	63.5	74.7	68.3	66.3	66.5
Communist China.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Mongolia.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
North Korea.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
North Vietnam.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

¹ Not available.

Source: Official foreign trade statistics of Soviet bloc countries.

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TABLE XI-3.—Area sown to principal crops in Sino-Soviet bloc countries, 1937, 1950, 1960-62
 [In thousands of hectares]

	Sino-Soviet bloc total	European Soviet bloc, total ¹	Bulgaria	Czechoslovakia	Hungary	Poland	Romania	Soviet zone of Germany	U.S.S.R.	Asian Soviet bloc, total	Communist China	Mongolia	North Korea	North Vietnam	
Grain crops, total:															
1937	(2)	137,650	1154	3,576	3,435	3,991	11,547	3,11,447	(2)	104,500	(2)	(2)	(2)	(2)	
1950	(2)	151,822	151,822	3,227	3,026	3,595	13,130	9,206	2,718	102,877	(2)	247	4,2,091	(2)	
1960	(2)	155,916	155,916	(2)	2,587	2,576	9,266	7,966	3,322	121,690	(2)	335	2,2,257	(2)	
1961	(2)			(2)	2,883	2,618	8,276	8,937	2,267	128,248	(2)	380	2,2,280	(2)	
1962	(2)			(2)		3,267	8,678	(2)	2,260	135,900	(2)		2,302	(2)	
Of which:															
Wheat:															
1937	(2)	50,330	40	1,309	853	1,483	1,693	3,552	(2)	41,400	(2)	(2)	(2)	(2)	
1950	(2)	46,939	58	1,449	755	1,275	1,450	2,782	473	38,525	(2)	(2)	(2)	(2)	
1960	(2)	67,862	(2)	1,249	632	1,051	1,361	2,827	419	60,393	(2)	(2)	(2)	(2)	
1961	(2)	70,722	(2)	(2)	1,311	1,014	1,401	2,969	385	63,000	(2)	(2)	(2)	(2)	
1962	(2)			(2)	673	1,695	1,393	(2)	427	67,400	(2)				
Rye:															
1937	(2)	30,647	4	211	967	606	5,721	438	(2)	22,700	(2)	(2)	(2)	(2)	
1950	(2)	31,642	11	230	626	597	5,080	204	1,294	23,600	(2)	(2)	(2)	(2)	
1960	(2)	23,177	(2)	78	431	301	5,122	98	947	16,200	(2)	(2)	(2)	(2)	
1961	(2)	23,502	(2)	(2)	71	405	268	4,880	90	830	16,700	(2)	(2)	(2)	
1962	(2)			(2)	441	232	4,700	(2)	814	16,900	(2)				
Corn:															
1937	(2)	10,214	92	682	185	1,204	92	5,159	(2)	2,800	(2)	(2)	(2)	(2)	
1950	(2)	9,848	123	756	129	1,151	4	2,853	3	4,829	(2)	(2)	(2)	(2)	
1960	(2)	18,173	(2)	634	195	1,401	129	3,572	3	11,239	(2)	(2)	(2)	(2)	
1961	(2)	18,369	(2)	(2)	635	201	1,340	143	3,428	2	13,160	(2)	(2)	(2)	
1962	(2)			(2)	237	1,288	136	(2)	2	14,200	(2)				
Rice:															
1937	(2)	145	2	6	(2)	(2)	(2)	(2)	(2)	200	(2)	(2)	(2)	(2)	
1960	(2)	159	(2)	12	(2)	10	(2)	28	(2)	100	(2)	(2)	(2)	(2)	
1961	(2)	143	(2)	(2)	10	(2)	(2)	22	(2)	100	(2)	(2)	(2)	(2)	
1962	(2)			(2)	10	(2)	(2)	19	(2)	100	(2)	(2)	(2)	(2)	
Potatoes:															
1937	(2)	11,205	1	22	772	295	2,980	7,235	(2)	6,900	(2)	(2)	(2)	(2)	
1950	(2)	13,164	4	30	660	279	2,616	2,229	812	8,534	(2)	(2)	(2)	(2)	
1960	(2)	13,949	(2)	(2)	43	569	253	2,876	292	772	9,144	(2)	(2)	(2)	
1961	(2)	13,504	(2)	(2)	41	515	240	2,819	263	752	8,878	(2)	(2)	(2)	
1962	(2)			(2)	508	209	2,910	(2)	752	8,700	(2)				
Animal feeds, total:															
1937	(2)	9	(2)	(2)	(2)	(2)	(2)	(2)	(2)	791	10,600	(2)	(2)	(2)	(2)
1950	(2)	9	(2)	(2)	311	1,207	1,400	(2)	1,665	1,097	20,739	(2)	(2)	(2)	(2)
1960	(2)	64,233	(2)	(2)	786	1,504	1,774	1,727	1,829	1,206	51,914	(2)	(2)	(2)	(2)
1961	(2)	59,238	(2)	(2)	727	1,573	1,732	(2)	1,207		44				

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1932	Industrial crops, total:	(2)	1,513	8717	1,826	(2)	1,172	55,100
1937	(2) 32	(2)	529	(2) 396	(2) 612	(2)	415	11,200
1950	(2) 73	(2)	523	(2) 396	720	827	12,231	13,050
1960	(2) 66	(2)	515	(2) 404	802	824	13,612	14,300
1961	(2) 62	(2)	403	(2)	907	805	410	409
1962	Of which: Cotton:		50	(2) 55	(2) 94	22	2,120	
1937	(2) 565	(2) 16	79	(2) 55	(2) 94	(2)	2,316	
1950	(2) 272	(2)	73	(2) 55	(2) 94	(2)	2,192	
1960	(2) 395	(2)	78	(2) 55	(2) 94	(2)	2,335	
1961	(2) 290	(2)	7	(2) 48	(2) 111	(2)	2,290	
1962	Fax:		231	(2) 5	10	146	22	2,130
1937	(2) 2125	(2)	11	(2) 53	(2) 26	(2)	1,903	
1950	(2) 2125	(2)	5	(2) 47	(2) 95	(2)	26	
1960	(2) 2125	(2)	7	(2) 48	(2) 111	(2)	23	
1961	(2) 2125	(2)	7	(2) 48	(2) 111	(2)	23	
1962	Sunflower seeds:		216	(2) 5	(2) 278	(2)	2,250	
1937	(2) 236	(2)	231	(2) 5	(2) 70	(2)	3,559	
1950	(2) 236	(2)	231	(2) 5	(2) 70	(2)	4,190	
1960	(2) 236	(2)	231	(2) 5	(2) 70	(2)	4,217	
1961	(2) 236	(2)	231	(2) 5	(2) 70	(2)	4,390	
1962	Sugarcane:		223	(2) 1	(2) 39	47	147	
1937	(2) 434	(2)	434	(2) 1	(2) 39	(2) 225	1,190	
1950	(2) 434	(2)	434	(2) 1	(2) 39	(2) 225	1,308	
1960	(2) 434	(2)	434	(2) 1	(2) 39	(2) 225	1,308	
1961	(2) 434	(2)	434	(2) 1	(2) 39	(2) 225	1,308	
1962	Tobacco:		289	(2) 5	(2) 39	10	14	
1937	(2) 289	(2)	289	(2) 5	(2) 39	(2) 10	14	
1950	(2) 289	(2)	289	(2) 5	(2) 39	(2) 10	14	
1960	(2) 289	(2)	289	(2) 5	(2) 39	(2) 10	14	
1961	(2) 289	(2)	289	(2) 5	(2) 39	(2) 10	14	
1962	Total:		190,659	(2)	(2) 393	(2) 17,422	(2)	135,300
1937	(2)	(2)	190,659	(2)	(2) 393	(2) 17,422	(2)	135,300
1950	(2)	(2)	247,766	(2)	(2) 393	(2) 15,010	(2)	146,302
1960	(2)	(2)	248,834	(2)	(2) 393	(2) 15,162	(2)	202,985
1961	(2)	(2)		(2)	(2) 393	(2) 15,203	(2)	4,730
1962	(2)	(2)		(2)	(2) 393	(2) 15,243	(2)	216,000

¹ Total excludes Albania whenever data are not available.
² Not available.
³ Includes area sown under lucerne, red clover, mixture of oats and vetches, cattle turnips, and maize for silage.

Sources: Official statistics of the Sino-Soviet bloc countries; League of Nations statistical yearbooks.
⁴ 1949 data.
⁵ Less than smallest unit reported.

⁶ League of Nations estimate.
⁷ Includes area sown under wheat, rye, rice, barley, oats, corn.

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TABLE XI-4.—Harvest of selected crops in Sino-Soviet bloc countries, 1937, 1950, 1950, 1960-62
 [In thousand metric tons]

	Sino-Soviet bloc total	European Soviet Bloc, total ¹	Bulgaria	Czechoslovakia	Hungary	Poland	Romania	Soviet Germany	U.S.S.R.	Asian Soviet bloc, total	Communist China	North Korea	Mongolia	North Vietnam	
Grain crops:															
Wheat:															
1937	202	1,767	15,711	11,179	11,273	10,383	(*)	97,400	66,300	1,460	1,460	2,300	(*)	(*)	
1950	117,323	240	3,155	3,4720	5,500	5,115	5,149	5,626	81,200	3,803	4,670	4,670	4,670	(*)	
1960	152,683	220	4,849	5,735	3,860	3,14,119	9,826	6,375	134,400	126	126	326	326	(*)	
1961	185,449	(*)	4,384	5,661	3,6,109	15,560	10,612	4,843	138,800	216	216	326	326	(*)	
1962	186,202	(*)	5,688	5,688	6,728	(*)	5,937	147,500	147,500	147,500	147,500	147,500	147,500	147,500	(*)
Rye:															
1937	49	756	45	1,766	1,395	1,964	1,926	3,760	38,900	2,214	2,214	2,214	2,214	(*)	
1950	41,773	35	1,757	1,350	2,055	1,888	1,888	2,219	31,100	64,360	64,360	64,360	64,360	(*)	
1960	77,159	(*)	2,379	1,903	1,768	2,303	2,303	3,450	1,458	66,560	66,560	66,560	66,560	(*)	
1961	79,950	(*)	2,028	(*)	1,666	1,936	1,936	3,990	1,058	70,600	70,600	70,600	70,600	(*)	
1962	79,950	(*)	2,028	(*)	1,644	1,959	2,700	(*)	1,315	70,600	70,600	70,600	70,600	(*)	
Corn:															
1937	8	238	1,372	618	5,638	451	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	
1950	27,739	82	1,147	789	6,488	182	182	2,418	(*)	2,126	2,126	2,126	2,126	(*)	
1960	28,025	(*)	70	994	535	7,875	103	103	104	1,504	1,504	1,504	1,504	(*)	
1961	28,025	(*)	70	916	297	8,356	104	104	104	16,700	16,700	16,700	16,700	(*)	
1962	28,025	(*)	70	916	233	6,700	(*)	1,726	16,900	16,900	16,900	16,900	16,900	(*)	
Rice:															
1937	14,833	137	859	3,432	2,770	103	4,752	(*)	2,800	2,800	2,800	2,800	2,800	(*)	
1950	11,477	109	634	2,218	1,705	1,705	1,705	2,101	5	6,600	6,600	6,600	6,600	(*)	
1960	30,013	(*)	1,505	572	3,304	47	47	5,880	5,880	18,700	18,700	18,700	18,700	(*)	
1961	34,676	(*)	1,424	461	2,715	33	33	5,740	3	24,300	24,300	24,300	24,300	(*)	
1962	34,676	(*)	1,424	471	3,241	(*)	(*)	(*)	3	23,300	23,300	23,300	23,300	(*)	
Potatoes:															
1937	316	(*)	32	(*)	45	(*)	(*)	36	(*)	334	334	334	334	(*)	
1950	335	(*)	36	(*)	38	(*)	(*)	49	(*)	190	190	190	190	(*)	
1960	335	(*)	36	(*)	36	(*)	(*)	31	(*)	250	250	250	250	(*)	
1961	335	(*)	36	(*)	36	(*)	(*)	31	(*)	260	260	260	260	(*)	
1962	335	(*)	36	(*)	36	(*)	(*)	31	(*)	260	260	260	260	(*)	
Vegetables:															
1937	3	146	12,363	7,2,960	40,221	2,107	(*)	58,700	58,700	14,706	14,706	14,706	14,706	(*)	
1950	27	150	8,156	1,350	36,130	1,601	1,601	83,600	83,600	14,821	14,821	14,821	14,821	(*)	
1960	23	478	5,033	2,656	37,835	3,009	3,009	8,430	8,430	13,284	13,284	13,284	13,284	(*)	
1961	23	445	5,331	1,630	45,233	2,575	2,575	13,284	13,284	68,800	68,800	68,800	68,800	(*)	
1962	23	445	5,002	1,882	37,800	(*)	(*)	13,284	13,284	68,800	68,800	68,800	68,800	(*)	
1963	23	473	(*)	(*)	1,972	(*)	(*)	15,400	15,400	9,300	9,300	9,300	9,300	(*)	
1964	54	(*)	(*)	(*)	(*)	(*)	(*)	1,127	1,127	(*)	(*)	(*)	(*)	(*)	

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1960	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1961	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1962	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
Cotton:	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
Flax:	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1963	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1964	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1965	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1966	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1967	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1968	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1969	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1970	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1971	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1972	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
Sunflower seeds:	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1973	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1974	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1975	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1976	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1977	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1978	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1979	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
Sugarcane (for processing):	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1980	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1981	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1982	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
Animal feeds:	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1983	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1984	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1985	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1986	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1987	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1988	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1989	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1990	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1991	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063
1992	1,141	2,510	2,566	4,356	4,544	6,189	7	10	32	64	24	721	776	5	2,063

¹ Total does not include Albania whenever data for Albania are not given.

² Not available.

³ Includes wheat, rye, rice, barley, oats, corn.

⁴ 1949 data.

⁵ No production.

⁶ Less than smallest unit recorded.

⁷ League of Nations estimate.

⁸ For lack of data on cotton production, the figures on state purchases from domestic sources are shown.

⁹ Includes lucerne, red clover, mixture of oats and vetches, cattle turnips, and maize for silage.

Sources: Official statistics of the Sino-Soviet bloc countries; League of Nations statistical yearbook.

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TABLE XI-5.—Sino-Soviet intrabloc trade, 1959-62
 [In millions of dollars]

Exporting country and year	Sino-Soviet bloc total	European Soviet bloc total	Albania	Bulgaria	Czecho-slovakia	Hungary	Poland	Rumania	Importing country			
									Soviet Zone of Germany	U.S.S.R.	Asian Soviet bloc total	Communist China
Sino-Soviet bloc, total:												
1959	1,138	447	555	936	414	1,652	3,792					
1960	1,262	521	663	949	460	1,702	3,905					
1961	1,383	549	681	1,042	520	1,835	3,865					
1962	1,445	(1)	(1)	1,195	(1)	1,884	2,260					
European Soviet bloc, total:												
1959	7,400	77	435	508	382	1,522	2,574					
1960	8,105	66	509	620	893	431	1,588					
1961	9,063	46	644	659	1,014	504	2,843					
1962	1,301	(1)	1,419	(1)	1,164	(1)	1,784	3,151				
Albania:												
1959	33	1	7	3	2	(1)	5	15				
1960	48	1	11	3	3	(1)	4	24				
1961	48	2	10	(1)	5	(1)	6	22				
1962	48	(1)	(1)	(1)	(1)	(1)	(1)	(1)				
Bulgaria:												
1959	398	390	4	42	11	22	5	47	259	8	6	2
1960	469	461	3	55	12	20	8	56	307	8	8	(1)
1961	540	531	(1)	66	14	22	14	70	337	9	8	1
1962	540	(1)	(1)	65	(1)	31	(1)	(1)	389	(1)	(1)	(1)
Czechoslovakia:												
1959	1,226	1,090	10	86	115	61	178	587	138	100	6	24
1960	1,362	1,232	8	61	128	64	186	659	134	100	7	12
1961	1,384	1,346	11	67	104	164	77	220	828	111	4	6
1962	1,554	1,533	9	62	125	201	88	230	828	111	4	4
Hungary:												
1959	509	462	8	87	39	18	90	209	47	40	1	4
1960	558	538	2	16	46	26	101	257	50	40	2	5
1961	725	687	4	14	60	29	110	332	38	29	2	4
1962	(1)	(1)	(1)	(1)	(1)	(1)	(1)	389	(1)	(1)	(1)	(1)
Poland:												
1959	661	607	4	17	81	18	137	313	54	43	1	6
1960	758	728	3	28	113	37	23	125	60	50	3	6
1961	801	826	4	22	147	55	110	485	35	27	3	1
1962	983	960	4	24	146	64	118	118	118	118	3	2

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Rumens: 1959	409	373	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1960	514	472	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1961	521	521	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1962	635	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Soviet Zone of Germany: 1959	1,622	1,495	6	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
1960	1,635	1,517	5	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
1961	1,664	1,594	4	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
1962	1,854	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
U.S.S.R.:	4,078	2,950	49	290	603	260	496	232	1,030	1,128	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1959	4,081	3,118	43	329	631	311	491	261	1,052	953	817	79	74	20	24	24	24	24	24
1960	3,987	3,420	20	356	633	359	531	292	577	367	92	83	39	11	11	11	11	11	11
1961	3,987	3,420	(1)	448	771	411	594	375	455	233	126	126	126	126	126	126	126	126	126
1962	3,987	3,420	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Asian Soviet Bloc, Total: 1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Communist China: 1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	2,1452	1,157	11	96	44	56	30	115	1,100	1,218	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1961	2,1452	1,157	10	93	36	46	24	100	848	1,002	1,128	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1962	2,1452	1,157	5	42	17	21	20	40	551	516	620	516	516	516	516	516	516	516	516
Mongolia: 1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Korea: 1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Vietnam: 1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

¹ Not available.
² Excludes Albania.
³ Less than the smallest unit reported.

⁴ Excludes Albania and Bulgaria.
 Sources: Official foreign trade statistics of Soviet bloc countries; UNECE yearbooks, 1960-62.

TABLE XI-6.—Production of selected basic commodities in Sino-Soviet bloc countries, 1937, 1950, and 1960-62

Commodity and year	Albania	Bulgaria	Czechoslovakia	Germany: Soviet Zone	Hungary	Poland	Rumania	U.S.S.R.	European Soviet bloc total	Communist China	Mongolia	North Korea	North Vietnam	Asian Soviet bloc total	Sino-Soviet bloc total	
Electric power (million kilowatt hours):																
1937	1.9	202	4,115	(*)	1,061	3,628	1,135	36,200	46,350	(*)	(*)	(*)	(*)	(*)	(*)	
1938	2.1	377	9,280	(*)	3,001	9,421	2,113	91,226	135,325	4,550	70	4,524	10,644	145,844	145,844	
1939	194	4,637	24,500	19,466	7,617	29,305	7,625	262,300	405,598	55,000	106	9,139	255	64,900	145,844	
1940	227	5,411	26,962	40,305	42,515	8,382	32,254	8,631	327,600	451,982	58,500	123	10,040	276	939	471,006
1941	242	6,043	25,700	45,068	9,118	35,400	10,100	369,000	503,666	(*)	145	11,446	338	(*)	520,921	
Coal (million metric tons):																
1937	(*)	2	35	(*)	184	8	36	2	128	211	(*)	(*)	(*)	(*)	(*)	
1938	6	50	17	82	228	27	113	4	261	607	4,31	4,44	35	642	642	
1939	19	88	240	240	28	117	9	513	988	425	1	11	3	440	1,128	
1940	21	93	249	249	29	121	10	511	1,012	430	1	12	3	446	1,458	
Oil (thousand metric tons):																
1937	1,108	(*)	18	(*)	2	499	7,153	28,501	38,281	(*)	(*)	(*)	(*)	(*)	(*)	
1938	132	(*)	68	(*)	152	1,217	194	11,530	37,878	43,794	4,122	(*)	(*)	(*)	(*)	
1939	728	200	137	(*)	1,457	203	11,882	147,859	161,835	5,500	(*)	(*)	(*)	(*)	43,916	
1940	770	207	154	(*)	1,641	203	11,884	166,068	180,441	6,200	(*)	(*)	(*)	(*)	5,500	
1941	790	(*)	177	(*)	1,641	203	11,884	186,200	200,875	6,900	(*)	(*)	(*)	(*)	167,335	
Cement (thousand metric tons):																
1937	19	164	1,350	(*)	1,412	362	1,280	464	5,454	9,112	(*)	(*)	(*)	(*)	(*)	
1938	16	602	1,998	1,412	2,514	737	2,514	1,028	10,194	18,561	1,400	(*)	(*)	(*)	(*)	
1939	73	1,556	5,051	5,032	1,571	6,598	6,598	3,054	45,520	68,458	16,000	(*)	380	(*)	20,341	
1940	(*)	1,749	6,343	5,275	1,601	7,364	3,308	50,864	75,504	(*)	407	18,692	(*)	(*)	87,178	
1941	(*)	1,883	5,710	5,432	1,733	7,541	3,489	57,300	83,068	(*)	2,262	452	(*)	(*)	(*)	
Pig iron (thousand metric tons):																
1937	(*)	3	1,675	(*)	337	357	720	127	14,487	17,366	(*)	(*)	(*)	(*)	(*)	
1938	(*)	1,951	1,951	1,401	1,226	1,995	1,533	320	19,175	23,780	1,246	1,166	412	412	24,192	
1939	(*)	1,951	1,951	1,401	1,226	1,995	1,533	1,014	46,767	60,463	27,500	853	353	353	88,816	
1940	(*)	1,951	1,951	1,401	1,226	1,995	1,533	1,014	46,767	60,463	27,500	853	353	353	88,816	
1941	(*)	1,951	1,951	1,401	1,226	1,995	1,533	1,014	46,767	60,463	27,500	853	353	353	88,816	
1942	(*)	1,951	1,951	1,401	1,226	1,995	1,533	1,014	46,767	60,463	27,500	853	353	353	88,816	

Steel (thousand metric tons):	(6)	(2)	2,300	(3) 999	665	1,468	229	17,730	22,402	(3)	(2)	(2)	(3)	(3)
1937	6	5	3,122	1,048	2,515	555	27,329	35,573	4,158	(2)	(2)	(2)	(3)	(3)
1950	253	6	6,768	1,887	6,681	1,806	65,233	86,026	18,450	641	105,091	105,116	(2)	(2)
1960	340	7	7,443	3,444	2,053	2,126	70,751	92,961	(2)	772	(2)	(2)	(2)	(2)
1961	422	7	7,639	3,622	2,853	7,451	76,300	100,451	(2)	1,050	(2)	(2)	(2)	(2)
1962														

¹ 1958 data.

² Public electric stations only.

³ Not available.

⁴ 1949 data.

⁶ Denotes less than smallest unit reported.

^a Denotes no production.
 Sources: Official sources of the Soviet bloc countries; League of Nations Statistical Yearbook, 1938-39; UN Statistical Yearbooks, 1950-61; UNECE Yearbooks, 1950-62.

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TABLE XI-7.—Production of selected manufactured products, 1937, 1950, 1960-62

Commodities and year	Albania	Bulgaria	Czechoslovakia	Germany: Soviet Zone	Hun- gary	Poland	Ru- mania	U.S.S.R.	Europen Soviet Bloc total 1	Com- munist China	Mon- golia	North Korea	North- Viet- nam	Asian Soviet Bloc total	Sino- Soviet bloc total
Automotive vehicles, (thou- sand units):															
1937	(2)	(2)	15	(2)	8	(2)	3	\$4	(4)	200	(3)	366	(2)	366	
1950	(2)	(2)	31	70	77	5	37	12	363	524	725	802	802	802	
1960	(2)	(2)	73	81	80	6	39	15	555	788	822	822	822	822	
1961	(2)	(2)	78	80	6	45	15	578	802	822	822	822	822	822	
1962	(2)	(2)	81	80	6	45	15	578	802	822	822	822	822	822	
Tractors (thousand units):															
1937	(2)	(2)	(6)	(2)	11	(2)	5	\$1	(4)	51	52	(2)	(2)	(2)	
1950	(2)	(2)	32	9	4	4	4	3	117	239	309	339	339	339	
1960	(2)	(2)	28	12	2	3	13	20	264	339	373	373	373	373	
1961	(2)	(2)	32	14	3	15	22	287	373	373	373	373	373	373	
1962	(2)	(2)	32	14	3	15	22	287	373	373	373	373	373	373	
Rolling stock (freight) (thou- sand units):															
1937	(2)	(2)	1	(2)	2	1	(2)	1	30	(2)	75	(2)	(2)	(2)	
1950	(2)	(2)	2	5	7	2	2	14	5	36	64	9	9	9	
1960	(2)	(2)	1	5	2	2	2	14	6	35	65	11	11	11	
1961	(2)	(2)	2	5	2	2	2	16	6	36	67	20	20	20	
1962	(2)	(2)	2	5	2	2	2	16	6	36	67	20	20	20	
Metalworking machinery (thousand units):															
1937	(2)	(2)	5	(2)	17	(2)	3	4	(4)	52	(2)	118	6	6	
1950	(2)	(2)	13	24	32	7	7	25	4	80	186	281	281	281	
1960	(2)	(2)	3	25	30	7	7	25	5	136	233	233	233	233	
1961	(2)	(2)	5	26	31	7	7	28	5	209	(2)	(2)	(2)	(2)	
1962	(2)	(2)	26	31	7	7	28	5	209	(2)	(2)	(2)	(2)	(2)	
Antifriction bearings (million units):															
1937	(2)	(2)	6	(2)	3	(2)	1	(4)	(6)	40	(2)	(2)	(2)	(2)	
1950	(2)	(2)	37	41	34	35	35	12	17	5	370	398	398	398	
1960	(2)	(2)	41	43	35	35	35	20	7	6	396	430	430	430	
1961	(2)	(2)	43	43	35	35	35	20	7	7	430	430	430	430	
1962	(2)	(2)	43	43	35	35	35	20	7	7	430	430	430	430	
Chemical fertilizers (thousand tons):															
1937	(2)	(2)	81	(2)	256	182	86	(4)	1	3,240	3,459	(2)	(2)	(2)	
1950	(2)	(2)	96	287	500	545	477	160	160	5,497	6,204	6,30	6,30	6,30	
1960	(2)	(2)	124	143	502	637	517	71	71	13,867	15,871	2,800	2,800	2,800	
1961	(2)	(2)	143	164	519	519	519	86	86	15,315	17,534	17,534	17,534	17,534	
1962	(2)	(2)	164	164	519	519	519	777	777	17,300	17,300	17,300	17,300	17,300	

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	1937	1950	1962	1970	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998
Refrigerators (thousand units):															
1937	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
1950	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
1962	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Sewing machines (thousand units):															
1937	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
1950	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
1962	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Cotton fabrics (million running meters):															
1937	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
1950	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
1962	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Shoes (million pairs):															
1937	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
1950	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
1962	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)

¹ Total excludes Albania whenever data are not available.

² 1949 data.

³ Not available.

⁴ 1958 data.

⁵ No production.

⁶ Less than smallest unit reported.

⁷ Million square meters.

⁸ State-owned factories only.

Sources: Official statistics of the Soviet bloc countries; League of Nations.

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SECTION XII

BIBLIOGRAPHY

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Part A

SELECTED BIBLIOGRAPHY OF RECENT SOVIET MONOGRAPHS

This bibliography is limited primarily to monographs which have been examined in the course of this compiler's pursuits in the fields of Soviet economics, labor force, and population. With several exceptions, the selection is restricted to those monographs which have appeared since 1959. Entries marked with an asterisk (*) have been added to the original bibliography appearing in Joint Economic Committee, *Dimensions of Soviet Economic Power*, 1962, pp. 671-688. Relatively few purely technical books are included, and statistical handbooks are omitted entirely.

The bibliography is arranged according to subject and branch of the national economy. The subject listing is in alphabetical order, whereas the branch listing approximates the sequence used in Soviet statistical handbooks. Each entry appears only once in either the subject or branch classification. The arrangement within the subject listing and the branch listing is as follows:

SUBJECT LISTING

- Background
- Capital Investment
- Communist Party
- Cooperatives
- Cost of Production
- Economy—General
- Geography, Urbanization, Location of Industry
- Input-Output
- International Comparisons
- Labor
- Law
- Level of Living
- National Income, State Budget, Taxes
- Planning
- Population and Vital Statistics
- Prices
- Regional Economy
- Statistics, Accounting, Mechanized Data Processing
- Trade Unions
- Wages

BRANCH LISTING

Agriculture
Industry—General
 Electric Power
 Fuels
 Metallurgy
 Machine Building and Metalworking
 Chemical
 Construction Materials
 Logging, Woodworking, and Paper
 Light
 Food
Construction
Forestry
Transportation—General
 Railroad
 Automotive
 Sea
 River
 Air
Communications
Trade and Material-Technical Supply
Public Health
Education
Science and Scientific Services
Banking
Government
Housing-Communal Economy
Armed Forces

SUBJECT LISTING

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Part B

SELECTED SOVIET BIBLIOGRAPHY ON INPUT-OUTPUT

This bibliography lists Soviet sources directly related to input-output analysis and techniques in the Soviet Union. All Soviet and Western (English language) sources known to the compiler are shown; only a few selected papers and books from other East European Socialist countries are listed. It is very difficult to delineate the boundaries of input-output analysis, as in the context of Soviet economics it merges with national income statistics, material balances, the theory of reproduction on one hand and linear programming on the other. In order to present this bibliography in manageable dimensions, the sources related to these areas are omitted unless they refer directly to input-output analysis.

The bibliography covers books, volumes of collected papers, journal papers, as well as newspaper articles, book reviews, conference reports, and the like. The few Western books on input-output translated and published in the U.S.S.R. are also included.

Papers included in volumes completely devoted to input-output are not shown separately. The listings are divided into books, journal papers, and other sources, and are arranged alphabetically by author within each of these three divisions. In each non-English reference a transliterated Soviet title is followed by an English translation. The Soviet term "mezhotraslevoi" is translated as "intersectoral" rather than as "input-output" to be as close to the Soviet content of the term as possible.

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¹ The paper contains a table (p. 12) with an obvious typographical error in the entry showing industrial purchases of transportation services. The error was never corrected in an *errata*. However, the author, M. Eidel'man, in a personal letter to the compiler of the bibliography (dated Nov. 1, 1962, Moscow) indicated that the correct value should be 1,083.2.

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APPENDIXES

APPENDIX 1

ECONOMIC INTERRELATIONS IN THE SOVIET UNION
(Summary and Reconstruction of the 1959
Soviet Interindustry Table)

APPENDIX 1

ECONOMIC INTERRELATIONS IN THE SOVIET UNION

INTRODUCTION¹

This study is focused on the summary, analysis, and reconstruction of the first operational large-scale Soviet input-output flow table which was completed in the U.S.S.R. in 1961 but never fully published. The importance of the intersectoral balance, to use the Soviet term, cannot be overemphasized. It is too early to say whether the new techniques which are being gradually adopted in the U.S.S.R. would improve the efficiency of economic planning and affect Soviet economics performance. But for a Western student of Soviet economics an interindustry model of the Soviet economy, all its shortcomings notwithstanding, offers a wealth of data opening a completely new dimension in our studies. The flow and coefficient tables give us a bird's-eye view of the technology and the intricacies of interindustry relations as well as the production and distribution pattern of the Soviet economy. In addition to the model itself this study offers two sets of Soviet economic data which have always been kept secret in the U.S.S.R.; i.e., a list of values of gross outputs and employment in some 70 sectors of the Soviet economy. Parenthetically it may be noted that although the tables refer to 1959, the model is of more than historical interest as, at least in the eyes of Soviet economists, the basic interindustry relations revealed in the model remain relevant. Thus, out of 4,260 input coefficients shown in the 1959 intersectoral balance only 500 were adjusted when the first planning balance was being prepared for 1962.² The end product of the study is a fully reconstructed 1959 balance showing the grid of interindustry relations as well as consumption, value added, and employment of 38 aggregated sectors of the Soviet economy. A table of flow coefficients and the $(I-A)^{-1}$ table of inverse coefficients have also been prepared. The gross output and employment data are also given in a disaggregated form.³

¹ This paper offers a brief summary of a study "Soviet 1959 Interindustry Model: Reconstruction and Analysis" prepared under the auspices of the Research Analysis Corporation, McLean, Va., by Dr. Vladimir G. Treml, associate professor of economics, Franklin and Marshall College. The complete study will be published later this year. The author gratefully acknowledges the assistance of Dr. John P. Hardt and Dr. Stanley Cohn and, on earlier stages of the work, of Marvin Hoffenberg and Prof. James M. Blackman. All calculations were made at RAC's Computer Laboratory. References are made only to the most important sources. A complete bibliography of input-output analysis in the U.S.S.R. is given separately in this volume.

² L. Berrl, F. Klotzvog, and S. Shatalin, "Planovoe khoziaistvo," No. 9, 1962, pp. 34-43.

³ See supplementary tables, sections A and B.

HISTORICAL BACKGROUND

For some time now Western students of Soviet economics have been aware of a gradual reorientation of the Soviet economic science toward more rigorous analytical methods and, broadly speaking, toward a more pragmatic approach in economic analysis. The extensive exploration of various mathematical techniques, such as linear programming or input-output analysis, is but one manifestation of this trend.

But in the light of the current enthusiasm for applying mathematical tools to economic analysis, it is easy to forget that only a few years ago the mathematical approach to economic problems was frowned upon.⁴ Soviet partisans of the adoption of input-output analysis were especially severely handicapped. In addition to the general antimathematical bias of the Soviet economics profession several specific factors made input-output unpalatable to Soviet party controllers and to the majority of economists. In the first place input-output techniques were developed and perfected in the West and were therefore summarily dismissed and discredited in the Soviet Union on numerous occasions in the past. A number of other ideological obstacles, rather minor in the eyes of a Western student, had to be overcome. The *n*-product input-output models were considered to be in conflict with the two-product Marxian schemes of development. Leontief's input-output models are, of course, directly related to the Walrasian general equilibrium theory and this, again, poses a problem in the context of Soviet economics in which general equilibrium is associated with planning methods advocated in the late twenties by Bazarov and Groman and subsequently strongly condemned by Stalin.⁵ The proposed adoption of input-output techniques also raised some policy questions. All Soviet advocates of input-output strongly suggest that planning should start with national income, or in the framework of an input-output model with final demand vectors. This recommendation is contrary to the time-honored Soviet practice of planning with gross product and treating national income as a residual.⁶

Some of these ideological issues have been partially resolved and some simply dropped, and the partisans of input-output techniques appear to have gained the upper hand. At the same time it must be noted that, all the impressive efforts of constructing numerous operational models notwithstanding, input-output techniques have not yet been formally incorporated in Soviet planning. It is impossible

⁴ For a discussion of this trend see Wassily Leontief, "The Decline and Rise of Soviet Economic Science," *Foreign Affairs*, January 1960, pp. 261-272; Alfred Zauberman, "New Winds in Soviet Planning," *Soviet Studies*, XII, No. 1, July 1960, pp. 1-13; and "The Present State of Soviet Planometrics," *Soviet Studies*, XIV, No. 1, July 1962, pp. 62-74.

⁵ Reluctance of Soviet economist to use the term "equilibrium" is amazing. A prominent Soviet statistician A. Volodarski, recently published an article discussing intersectoral balance methods under the title: "Tempy, proportsii, garmoniya" (*Ekonomiceskaya gazeta*, No. 9, Oct. 2, 1961, pp. 5-6). The word "harmony" in this context in Russian is highly inappropriate, almost ridiculous, and its use can be explained only by the author's refusal to use "ravnoesic" (equilibrium).

See also G. M. Sorokin, "Planirovaniye narodnogo khoziaistva S.S.R." (Moscow, 1961), pp. 357-358. M. Z. Bor, "Voprosy metodologii planovogo balansa narodnogo khoziaistva S.S.R." (Moscow, 1960), pp. 24-25.

⁶ Aganbegian and Belkin (editors) "Primenenie matematiki i elektronnoi tekhniki v planirovani" (Moscow, 1961), p. 13. Herbert S. Levine, "The Centralized Planning of Supply in Soviet Industry," in "Comparison of the United States and Soviet Economics," 86th Cong. (Washington, D.C., 1959), pt. I, pp. 151-176. Herbert S. Levine, "Input-Output Analysis and Soviet Planning," "Papers and Proceedings," the American Economic Review, LII, No. 2, May 1962, pp. 127-137.

to tell from the scarce data available the exact role played by the 1962 and 1963 planning balances, but it is clear that they have not replaced the traditional methods of planning.⁷

First Soviet input-output studies were started in the midfifties, but all of this experimental work was and still is shrouded in complete secrecy. We do have some evidence that several highly aggregated pilot tables were prepared; some of these utilized Soviet statistical data but United States and Japanese input-output analog data was also used.⁸

The veil of secrecy was partially lifted in 1961 when the completion of the first two large-scale operational ex-post intersectoral balances based on 1959 data was announced.⁹ One balance was prepared in value terms and showed 83 productive sectors; the second was in physical units and showed 157 commodities. About a year after the construction of the two balances, labor input complements were completed.¹⁰ There is also some evidence that a capital capacity vector was added to the balances later. Satisfied with the results of these ex-post studies Soviet economists moved almost immediately to the preparation of ex-ante models, and early in 1962 the first two planning intersectoral balances were completed. The balance in value terms was very similar to the 1959 ex-post balance and employed the same sector classification, but the coverage of the balance in physical units was substantially expanded with a total of 346 commodities being shown.¹¹

In contrast to the ex-post 1959 balances, which were given wide publicity, only one paper discussing the method of construction of the planning balance in value terms appeared. Almost nothing has been reported on three planning balances which were completed in 1963 for that year: two of these were in physical units with, respectively, 435 and 372 commodities, while nothing is known of the balance in value terms.¹² There is also some evidence that a long-range model is being prepared for 1970.¹³

The work on these ex-post and ex-ante models of the entire economy is centered at the Economic Research Institute of Gosplan. At the same time, extensive studies of regional and interregional intersectoral models were pursued at the Laboratory of Mathematical Applications in Economics of the Academy of Sciences of the U.S.S.R. Between 1958 and the end of 1963 a total of 15 regional flow models, both of the ex-post and ex-ante variety, were prepared covering 8 large economic regions, such as the Belorussian, Estonian, and Latvian Republics.¹⁴

The exploration and gradual adoption of input-output techniques in the U.S.S.R. was paralleled in other countries of the Soviet bloc. One could even find sufficient evidence to suggest that Poles and Hungarians, less dogmatic and better acquainted with Western

⁷ Belkin in discussion, "Voprosy ekonomiki," No. 6, 1963, p. 112. M. Z. Bor, "Voprosy ekonomiki," No. 3, 1963, p. 5.

⁸ Agranbegian and Belkin (editors), op. cit., p. 63.

⁹ M. R. Eidel'man, Vestnik statistiki, No. 7, 1961, pp. 9-29; Voprosy ekonomiki, No. 10, 1961, pp. 61-74.

¹⁰ L. Berri, F. Klotsov, and S. Shatalin, Planovoe khoziaistvo, No. 2, 1962, pp. 51-62.

¹¹ M. R. Eidel'man, Vestnik statistiki, No. 12, 1962, pp. 3-17, and Sotsialisticheskii trud, No. 2, 1963, pp. 12-23.

¹² L. Berri, F. Klotsov, and S. Shatalin, Planovoe khoziaistvo, No. 9, 1962, pp. 34-43.

¹³ N. Kovalev, Voprosy ekonomiki, No. 5, 1963, pp. 76-77.

¹⁴ N. N. Shevlakov, Tekhnicheskii progress i struktura proizvodstva, series III, issue No. 15 (Moscow, 1963), p. 11.

¹⁵ Iu. R. Leibkind, Vestnik Akademii Nauk S.S.R., No. 10, 1963, p. 16.

studies, pioneered the input-output methods in the bloc and probably influenced their Soviet colleagues. The impressive list of flow tables completed or under construction in the bloc is shown in table 1.

TABLE 1.—*Intersectoral balances in the Soviet bloc*

Country	Year	Number of sectors		Units	Type
		Total	Industrial		
U.S.S.R.	1959	83	73	Purchaser's prices	Ex-post.
	1959	157	157	Physical units	Do.
	1962	83	73	Purchaser's prices	Planning.
	1962	346	323	Physical units	Do.
	1963	(1)	(1)	Purchaser's prices	Do.
	1963	{ 435	407	Physical units	Do.
Yugoslavia		372	344		
	1956	27	15	Producer's prices	Ex-post.
Poland	1957	20	14	Purchaser's prices	Do.
Hungary	1957	40	31	do	Do.
	1959	100	82	do	Do.
	1965 ²	(1)	(1)		Planning.
	1959	27	21	Purchaser's prices	Ex-post.
Bulgaria	1960 ²	75	(1)		Do.
Czechoslovakia	1962 ²	80-100	(1)	Value terms	Do.
Rumania	1962 ²	200	(1)	Physical units	Do.
	(1) ²	(1)	(1)	(1)	(1)

¹ Information not available.

² In preparation.

SOURCES AND NOTES

The table does not show highly aggregated pilot models constructed in these countries nor the numerous Soviet regional tables. For Soviet bibliography see text. Selected bibliography for other countries of the bloc:

Yugoslavia: Zaverni Zavod za Statistiku, Medusobni Odnosi Privrednih Delatnosti Jugoslavija v 1955 godini (Beograd, 1957).

Poland: Glowny Urzad Statystyczny, Rocznik Statystyczny (Warszawa, 1961), pp. 61-65. Oskar Lange, Introduction to Econometrics, 2d edition, (Warsaw: Pergamon Press, 1962), appendix. B. Szybisz, "The Input-Output Tables of the National Economy of Poland," "Input-Output Tables," edited by O. Lukacs (Budapest: Akademia Kiado, 1962), pp. 39-46. Pawel Sulmicki, "Prezelywy miedzygalezjowe" (Warsaw, 1959).

Hungary: Z. Kenessey, Vosnik statistiki, No. 4, 1961, pp. 33-37. Z. Kenessey, Vestnik statistiki, No. 11, 1962, pp. 45-48. O. Lukacs, "Hungarian Input-Output Tables and the Statistical Basis for Their Compilation," edited by O. Lukacs, pp. 19-28.

East Germany: Werner Karbstein, Statistische Praxis, No. 6, 1961, pp. 141-145, and No. 7, 1961, pp. 175-179. Hans Fuller, Einheit, No. 6, 1963, pp. 72-83.

Bulgaria: Z. Kenessey, "International Comparison of the Compilation and Use of Input-Output Tables," edited by O. Lukacs, p. 49.

Czechoslovakia: Z. Tlusky in Discussion, edited by O. Lukacs, pp. 249-250.

Rumania: United Nations, "The European Economy in 1961."

Economic Survey of Europe (Geneva, 1962), p. 41.

In summary we may suggest that while admittedly the theoretical frame and the statistical paraphernalia of presently used Soviet intersectoral models is not too sophisticated and has hardly advanced beyond the level of Western studies of the early forties, the Soviet partisans of input-output techniques have accomplished surprisingly much. This should be viewed against the background of ideological obstacles and resistance to change from many quarters. Nor should we lightly dismiss the technical difficulties, such as the lack of trained personnel and the limitations of Soviet computer facilities.

SUMMARY OF THE LAYOUT AND STRUCTURAL FEATURES OF THE BALANCE

The 1959 Soviet intersectoral balance in rubles can be described as a static, ex-post, Leontief-type open input-output flow table. The flows were measured in current 1959 purchaser's prices, that is, prices which include trade and transportation margins as well as the turnover tax whenever applicable.¹⁵

The table is divided into four subtables or quadrants. The first or the northwest quadrant is a square 83 x 83 table showing sales of products (horizontally) and purchases of inputs of 83 sectors. Following the Marx-inspired Soviet definition of national income and product, the table shows only sectors producing material goods or sectors directly related to production of material goods, e.g., freight transportation, communications serving material production, repair of machinery, and all trade and distribution services. Out of the total of 83 sectors, 73 are industrial sectors.¹⁶

All other services such as health, education, defense, and administrative services, passenger transportation, communications serving population, and the like are shown in quadrant II¹⁷ as final demand claimants along with consumption, investment, and exports. It may be noted that the entire output of construction and capital repair is shown in the second quadrant under investment (the construction row in the first quadrant shows only zeros). The entire output of trade and distribution services, freight transportation, and communications serving production is allocated within the first quadrant, and therefore their contribution to final demand is zero.

Thus in terms of the Soviet national income and product theory the two upper quadrants of the balance can be interpreted as showing the distribution of gross output (gross social product) with the distribution of the net product (national income) to consumption, gross investment, and exports shown in the second quadrant. The third quadrant shows depreciation, various types of labor income (wages, salaries, income-in-kind, etc.), state income such as turnover and other taxes, profits, social security contributions, and finally imports. It will be observed then that the two left-hand quadrants (I and II) conveniently show the Marxian breakdown of the value of the gross output into *c* (material inputs or elements of quadrant I), *v* (labor income), and *m* (surplus value or product).

Construction of the 1959 balance enabled Soviet economists to estimate for the first time the relative weights of consumer and producer goods as well as the distribution of the *c*, *v*, and *m* value elements in the gross social product and its subdivisions¹⁸ as shown in table 2.

¹⁵ For the nonspecialist discussion of input-output analysis, see H. Chenery and P. Clark, *Interindustry Economics*, New York, Wiley, 1959.

¹⁶ See Section B, table 1, for an 83-sector detail classification.

¹⁷ The Soviet practice of numbering quadrants is used in this study.

¹⁸ Soviet statisticians and planners do calculate and operate with producer goods (group A) and consumer goods (group B) subdivisions of the industrial gross product. Estimates of these two subdivisions (groups I and II) in the entire product although continuously discussed in abstracts were never actually made. Estimates of relative weights of the value elements were also never attempted prior to the publication of the 1959 balance.

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TABLE 2.—*Distribution of value elements in the gross social product, 1959*

	Total gross social product	Producer goods	Consumer goods
Material cost (c).....	50.8	52.1	49.0
Labor income (v).....	26.1	29.5	21.3
Surplus product (m).....	23.1	18.4	29.7
Total.....	100.0	100.0	100.0

Source, table 2: M. R. Eidel'man, *Vestnik statistiki*, No. 7, 1961, p. 22.

One departure from the customary Soviet practice may be noted: Soviet statisticians calculate gross social product by origin in terms of producer's prices, and the use of purchaser's prices in the 1959 balance led to double counting of trade and transportation costs and consequently to distortions in the GSP distribution.

The fourth quadrant shows how the national product recorded in the third quadrant is redistributed through the state budget. Information on the fourth quadrant is rather scarce, and several Soviet authors expressed dissatisfaction with its layout. It is interesting to note that in the 1962 planning balance Soviet framers followed the practice of Polish and Hungarian models and left the fourth quadrant blank.¹⁹

Sector classification used in the 1959 balance is the official sector classification employed by the Central Statistical Administration of the U.S.S.R. However, in the framework of the balance the sectors are defined as producing homogeneous output. In the process of constructing the flow table, products were removed from sectors for which they were secondary and added to sectors for which they were primary. The cost structure of sectors for which these adjustments were made was then correspondingly corrected.²⁰ We do not know the overall magnitude of these adjustments, but apparently it was substantial. Thus one Soviet source indicated that "nonsectoral" output comprised as much as 35.1 percent of output of the sector producing hoisting and transporting equipment, 34.1 percent of output of forging and pressing equipment, or 27.8 percent of output of transportation machinery. The share of nonsectoral output was especially large in machine building; in such sectors as coal mining it was only 0.4 percent.²¹

The data for the construction of the balance was obtained in the following way. A stratified-random sampling survey covering 20 percent of all enterprises was employed to get the cost data for the 73 industrial sectors and construction. Cost data for other sectors as well as for the final demand and value added quadrants were taken from the records of the Central Statistical Administration.²²

No unallocated entries were shown and the entire balance was made to agree with official national income and product accounts prepared by the Central Statistical Administration. It may be noted, however, that because of the use of purchaser's instead of producer's prices, the use of artificially created "pure" sectors and other statisti-

¹⁹ L. Berri, F. Klotsvog, and S. Shatalin, *Planovoe khozfaistvo*, No. 9, 1962, pp. 35-36.

²⁰ M. R. Eidel'man, *Vestnik statistiki*, No. 7, 1961, p. 15.

²¹ M. R. Eidel'man, *Vestnik statistiki*, No. 5, 1963, p. 17.

²² M. R. Eidel'man, *Vestnik statistiki*, No. 7, 1961, pp. 9-10.

cal discrepancies the flow and coefficient data of the balance is not directly translatable or comparable with the data used in statistical reports or planning.

The coverage appears to be fairly comprehensive—the full unabridged 83-sector first quadrant matrix has 4,260 nonzero entries, or 62 percent of the total.²³ At the same time it may be noted that the degree of concentration of flows is high; a Soviet study revealed that some 500 entries in the technology matrix accounted for 95 percent of all flows shown in the matrix.²⁴

Construction of the two 1959 balances was completed early in 1961. In contrast to the almost complete secrecy which shrouded the earlier Soviet input-output studies, the 1959 balances and especially the balance in value terms were given a high degree of publicity and a substantial amount of intersectoral data was published. The most important was the publication of a truncated 73-sector segment of the first quadrant in the 1960 Statistical Abstracts of the U.S.S.R.²⁵ Three sectors (radioelectronics, miscellaneous machine building products, and miscellaneous industrial products) were completely omitted from the published flow table. Thirteen sectors were grouped into different aggregates: thus, for instance, four metallurgy sectors were grouped into one, three trade sectors were grouped into one, transportation and communications were also combined. It is rather difficult to offer the rationale for all omissions and aggregations. Omission of radioelectronics and miscellaneous machine building product sectors, which probably produce military hardware, was apparently dictated by considerations of military secrecy. The aggregation of the bread and bakery sector with the flour and cereals sector is rather difficult to explain.

About a year after the completion of the 1959 balance its labor input complement was prepared. Labor inputs were expressed in man-years (average for the year) of total employment in each sector. The employment figures were obtained by the sampling survey referred to above and adjusted to reflect employment in "pure" sectors.²⁶ Essentially the labor complement consisted of a row of employment figures for the 83 sectors of the balance (or, of course, a row of labor input coefficients defined as employment in man-years per 1,000 rubles of gross output). However, the framers of the balance chose to multiply each row of the ruble balance by a respective labor input coefficient creating a semblance of a new "labor balance." The new balance then reads horizontally as direct labor embodied in the flow of product of the given sector and vertically as direct labor embodied in material purchases of the sector. This new table was published in a truncated format similar to the ruble balance in the 1961 Statistical Abstract of the U.S.S.R.²⁷

The appearance of the labor balance was hailed in the Soviet Union as the first step in the direction of determining the "true value" of commodities and therefore of utmost importance for price formation.²⁸ Several projects for determining the "labor value" of commodities of varying degrees of complexity and scope were reported in the literature,

²³ L. Berri, F. Klotsvog, and S. Shatalin, *Planovoe khoziaistvo*, No. 9, 1962, p. 38.

²⁴ L. Berri, F. Klotsvog, and S. Shatalin, *Planovoe khoziaistvo*, No. 2, 1962, p. 55.

²⁵ Ts. S. U., "Narodnoe khoziaistvo S.S.R. v 1960 godu" (Moscow, 1961), pp. 103-151.

²⁶ M. R. Eidel'man, *Vestnik statistiki*, No. 10, 1962, p. 4.

²⁷ Ts. S. U., "Narodnoe khoziaistvo S.S.R. v 1961 godu" (Moscow, 1962), pp. 77-117. Also appended to Eidel'man, *Vestnik statistiki*, No. 10, 1962.

²⁸ V. S. Nemchinov, "Ekonomiko-matematicheskie metody i modeli," (Moscow, 1962), pp. 368-371. V. N. Starovskii, *Vestnik Akademii Nauk S.S.R.*, No. 5, 1962, pp. 43-53.

but there is no evidence that these were carried beyond an experimental stage.²⁹ This is not surprising especially since the debate on theoretical aspects of "the law of value and price formation" continues unabated among Soviet theoreticians.³⁰

It is too early yet to fully assess the analytical and operational value of the 1959 intersectoral balance. By and large the layout and the structure of the balance, as well as the methods of its construction, follow closely the earlier Western models. The discussion of the merits and demerits of input-output techniques applied to a centrally planned economy, aside from involved and often obscure ideological issues, is not very revealing. In spite of the increasing volume of papers and monographs concerned with input-output in the U.S.S.R. the coverage is by no means comprehensive. Many technical details of construction of intersectoral models were never openly discussed. Some questions which occupy Western partisans of input-output analysis, such as the consequences of the linearity assumption, the problem of aggregation, the choice of prices, stability of input coefficients and the like, were not discussed in the Soviet literature or were dismissed in a few words. From the point of view of a Western observer the two most important shortcomings of the 1959 balance in rubles would be the employment of the official census classification of economic activities and the choice of purchaser's prices. It is quite clear that expediency considerations dictated the adoption of the existing sector classification and that production functions and distribution patterns of sectors were not seriously considered when the format and the degree of aggregation of the model were being discussed. The choice of purchaser's prices definitely reduces the predictive value of the model. This is of special importance in a Soviet model where purchaser's prices include trade and transportation charges as well as a significant addition (subject to erratic change) of the turnover tax. It may be noted, however, that recently several Soviet economists voiced criticism of the prices used and the entire balance was recomputed in terms of producer's prices.³¹

However, some points of Western criticism may not be relevant. Soviet framers of intersectoral balances view these as essentially tools of planning, and the 1959 balance was used as a basis for the subsequent planning balances. The question of stability of input coefficients (and hence the question of prices) is of lesser importance in ex-ante models in which input coefficients are largely given by government fiat.³²

²⁹ A. Berg, Pravda, No. 297, Oct. 24, 1962, p. 2. I. Doroshin, Planovoe khoziaistvo, No. 2, 1963, pp. 8-19. V. Chernysheva, Voprosy ekonomiki, No. 3, 1963, p. 149.

³⁰ Robert W. Campbell, "Marx, Kantorovich, and Novozhilov: Stoimost versus Reality," Slavic Review, vol. xx, No. 3, October, 1961, pp. 402-418.

³¹ L. Berri and Yu. Shvyrkov, Voprosy ekonomiki, No. 1, 1963, pp. 133-144.

N. Solov'ev in discussion, Planovoe khoziaistvo, No. 5, 1963, p. 23.

³² Thus a leading paper in the authoritative journal Kommunist states: "To become a tool of optimal planning an intersectoral balance must be based not on actual input coefficients but on scientifically determined progressive input coefficients." L. Al'ter, P. Krylov, and B. Miroshnichenko, Kommunist, No. 16, 1962, p. 75.

RECONSTRUCTION

The reconstruction of the entire balance was very tedious and drawn out. The end result of the reconstruction, the 38-sector flow table presented in appendix B, table 2, has, counting zeros, 1,520 entries out of which 994 were directly obtained from the Soviet published flows, and 526, or almost 35 percent, had to be estimated. Most estimates were made on the basis of published Soviet intersectoral data, but in some instances independently available Soviet statistical data was used. The accuracy of the estimates varies substantially, with some estimates being nothing but educated guesses and others being very close to the actual values. It may be noted that for about two-thirds of the estimates the margin of probable error can be determined; that is, the range into which the true value would fall can be specified.

It is next to impossible to summarize the process of estimating omitted values and of reconstructing the entire table, as this essentially amounted to a simultaneous solution of n equations with n unknown and as such defies comprehensive description.

The reconstruction was done in three stages. First, the entire balance was reconstructed in terms of six major aggregated branches; e.g., industry, agriculture, construction. Secondly, gross output, labor input coefficients, and total employment were estimated for some 70 sectors out of the original unabridged 83-sector table.³³ Most of the estimates of gross output values were made on the basis of the published segment of the first quadrant and published selected direct input coefficients.³⁴ Most of labor input coefficients were estimated by comparing the entries of the ruble balance with the entries of the "embodied labor" balance and were equally easily made.³⁵ Unfortunately, this straightforward method could not be applied to all gross output values and labor input coefficients which had to be estimated, and more elaborate and less accurate methods had to be used in a number of instances.

In the third stage of reconstruction the sectors which were aggregated for publication (such as metallurgy) were disaggregated and the values of omitted flows and totals were estimated. The latter constituted the most difficult part of the reconstruction and the margin of possible error is substantial. In addition to some intersectoral data, other Soviet statistics were used. Omissions appear to be great: comparing the published truncated segment of the first quadrant with the fully reconstructed table, we see that 6,431 million rubles, or approximately 4 percent of all interindustry flows were omitted.

³³ See Section A, tables 1 and 2.

³⁴ A direct input coefficient is defined as $a_{ij} = x_{ij}/X_j$ where x_{ij} is the input of commodity i into production of commodity j (or an entry of the flow table) and X_j is the gross output of sector j . With a_{ij} 's and x_{ij} 's available calculation of X_i 's is simple.

³⁵ The "embodied labor" flow table was prepared by simple multiplication of each row of the ruble table by the appropriate labor input coefficient c_i defined as $c_i = L_i/X_i$ where L_i is total employment and X_i the gross output of sector i . Thus a division of any entry of the labor table by the appropriate entry of the ruble table would give us the value of the labor input coefficient.

TESTING THE ACCURACY OF THE RECONSTRUCTION

Two types of tests were applied to estimates obtained in the process of reconstruction. For lack of better terms, we can call them tests of consistency and tests of overall accuracy.

Tests of consistency were applied to individual estimates and groups of estimates whereby consistency with other intersectoral data or with independently available Soviet statistical data was ascertained. In a number of instances the same estimate could be made on the basis of more than one set of statistical data. In such cases the best set of data would be chosen for making the estimate (the criterion of choice being the number of statistically significant digits in available sets), and the estimate would then be checked against other sets of data. The second type of consistency tests used in this study involved comparison of various estimates made in the process of reconstruction with the independently available Soviet nonintersectoral data. This type of test was limited by the availability of Soviet data and, of course, by the fact that some of the available data was itself used in the making of the estimate. Furthermore, as was pointed out above, Soviet intersectoral data is not, strictly speaking, comparable with other statistical data because of prices used in the measurement of flows and adjustment made in the process of creating artificially "pure" sectors. While the margin of possible error varied greatly from estimate to estimate and not all estimates could be tested this way, these tests produced satisfactory results.

As contrasted with tests of consistency, which were applied to individual entries, tests of overall accuracy were applied to the entire reconstructed table. The general framework of these tests is as follows. There is the original unabridged Soviet flow table A_s , not available to us, and this study offers a reconstructed version of it, A_r . To establish some benchmark of error a test table A_e is constructed similar to A_s in all but one respect—a random error is introduced into one of the most important segments of the table, the vector of gross output. While the original complete Soviet table is not available, we do have a sample of certain coefficients and derived measures. The test then proceeds with a comparison of errors found between A_s and A_r on one hand, and A_r and A_e on the other.

Following the methodology developed in the reconstruction of the 38-sector table a 66-sector test table was constructed³⁸—the two tables differ only in the level of aggregation. Two additional test 66-sector tables were prepared with alternating ± 5 and 10 percent error injected into the gross output vector. The usual calculations made with input-output tables were performed with all three test tables: a matrix of direct input coefficients was calculated and its inverse of the $(I - A)^{-1}$ form was obtained; finally the vector of full labor coefficients was calculated by multiplying one row of direct labor inputs by the inverse.

The first of the two tests of overall accuracy dealt with coefficients. Different Soviet sources published, mainly for illustrative purposes, some 102 "full input coefficients," that is elements of the $(I - A)^{-1}$

³⁸ The test 66-sector tables are too large to be appended to this paper. They are available at Dr. John P. Hardt's office, Research Analysis Corp., McLean, Va.

inverse of the original 83-sector table. The 66-sector test table was prepared in such a way that for all these 102 coefficients, comparable coefficients would be available. The test consisted in comparing and determining the error first between the coefficients from the original Soviet and the reconstructed 66-sector table, and then between the coefficients from the original Soviet and the test ± 5 percent and ± 10 percent error tables. The results are shown in Table 3.

TABLE 3.—Average percent error found between 102 original Soviet inverse coefficients and inverse coefficients obtained from test tables

	Unweighted average error	Error weighted by the value of the coefficient
1. Soviet and the 66-sector table	3.00	1.62
2. Soviet and the test 66-sector table with alternating ± 5 percent error	6.29	4.76
3. Soviet and the test 66-sector table with alternating ± 10 percent error	10.70	8.63

It must be noted that this test cannot be considered an ultimate proof of the "correctness" of our reconstructed tables and estimates, nor does this test offer a rigorously defined quantitative measure of the overall error. Nevertheless the average errors shown in the table above definitely indicate that the overall error in the reconstruction is probably rather small.

The second test of overall accuracy in which the test 66-sector table was used was as follows. One Soviet source analyzing the 1959 intersectoral balance and its inverse introduced three derived measures. Without going into the economic meaning of these measures, they can simply be listed, using Soviet terms:

1. "The coefficient of gross output" defined as

$$k_1 = \sum_{i=1}^n r_{ij} \quad (j=1, 2, 3 \dots n)$$

where r_{ij} stands for elements of the inverse.

2. "The coefficient of doublecounting" defined as

$$k_2 = \left(\sum_{i=1}^n r_{ij} - 1 \right) : \left(\sum_{i=1}^n a_{ij} \right) \quad (j=1, 2, 3 \dots n)$$

where a_{ij} stands for elements of the table of flow coefficients.

3. "The coefficient of full labor utilization" defined as

$$k_3 = \sum_{i=1}^n c_i \cdot r_{ij} \quad (j=1, 2, 3 \dots n)$$

where c_i stand for labor input coefficient.

The actual values of these three coefficients for 13 aggregated Soviet industries were published.³⁷ Using the 66-sector test table, comparable coefficients were computed for the 13 industries and compared with the original Soviet coefficients. Under the circumstances the best method of comparing the Soviet and our sets of coefficients was chosen to be Kendall's rank correlation test. The rank correlation coefficients for the three sets of k 's were calculated to be respectively +0.82, +0.82, and +0.68; all coefficients were significant on a 0.01 probability level. Thus, similarly to the results of the tests with coefficients, the test of overall accuracy applied to derived measures shows a high degree of agreement between Soviet data and data from the reconstructed 66-sector table.

Supplementary Tables—Section A

TABLE A-1.—*Gross output of selected sectors, 1959 intersectoral balance*
 [In millions of rubles]

Sector code No.	Sector designation	Gross output
1	Ferrous ores	562.1
2	Ferrous metals	6,470.0
3	Coke chemistry	1,351.7
4	Refractory materials	228.6
5	Industrial metal products	747.6
6	Nonferrous ores	827.5
7	Nonferrous metals	3,830.0
8	Coal	6,381.0
9	Oil extraction	959.0
10	Oil refining and processing	5,744.0
11	Gas	266.0
12	Peat	370.5
13	Oil shales	82.4
14	Other fuels	88.1
15	Electrical and thermal power	3,576.0
16	Energy and power machinery and equipment	622.1
17	Electrotechnical products	1,880.0
18	Cable products	770.0
19	Radioelectronic products	(1)
20	Metal and wood machine tools	591.0
21	Forging and pressing equipment	123.0
22	Casting equipment	29.0
23	Tools and instruments	262.0
24	Industrial instruments	857.0
25	Miscellaneous household durables	1,930.0
26	Mining and metal machinery and equipment	1,500.0
27	Pumps and compressors	490.0
28	Woodworking and paper machinery and equipment	37.0
29	Light industry machinery and equipment	485.0
30	Food industry machinery and equipment	282.0
31	Printing machinery and equipment	25.6
32	Hoisting and transportation equipment	320.0
33	Construction machinery	400.0
34	Construction materials machinery and equipment	132.0
35	Transportation machinery and equipment	2,010.0
36	Automobiles and automotive products	3,084.0
37	Tractor and agricultural machinery	2,430.0
38	Ball and roller bearings	244.0
39	Other machinery not elsewhere classified	(1)
40	Sanitary engineering equipment	430.0
41	Other metalwares and products	2,022.0
42	Metal frames and structures	443.0
43	Repair of all machinery and equipment	3,750.0
44	Abrasive and graphite products	124.6
45	Mineral chemistry products	126.0
46	Basic chemistry products	1,231.0
47	Aniline dyes	160.0
48	Synthetic resins and plastics	334.0
49	Synthetic fibers	357.0

See footnote at end of table, p. 197.

³⁷ Expressed as ratios of the coefficient of a given industry to the coefficient for metallurgy. In Jaremenko Planovoe khoziaistvo, No. 4, 1963, pp. 34-41.

TABLE A-1.—*Gross output of selected sectors, 1959 intersectoral balance—Continued*
 [In millions of rubles]

Sector code No.	Sector designation	Gross output
50	Synthetic rubber.....	1,871.0
51	Organic synthetic products.....	984.0
52	Paints and lacquers.....	1,007.0
53	Rubber and asbestos products.....	2,000.0
54	Other chemicals, not elsewhere classified.....	(1)
55	Logging and timber.....	5,000.0
56	Lumber and woodworking.....	4,230.0
57	Furniture.....	1,200.0
58	Other woodworking products.....	250.0
59	Paper products.....	1,267.0
60	Forest chemistry products.....	308.0
61	Construction materials.....	7,304.0
62	Glass and porcelain-faiience.....	877.4
63	Textiles.....	25,700.0
64	Sewn goods and apparel.....	8,800.0
65	Footwear, tanner and fur products.....	8,700.0
66	Fish and fish products.....	
67	Meat and meat products.....	
68	Milk and dairy products.....	
69	Sugar.....	57,800.0
70	Flour and cereals.....	
71	Bread and bakery products.....	
72	Other food products not elsewhere classified.....	(1)
73	Other industry products not elsewhere classified.....	28,711.9
74	Construction.....	53,700.0
75	Crops (agriculture).....	308.0
76	Animal husbandry.....	10,843.3
77	Forestry.....	412.7
78	Freight transportation.....	
79	Communications.....	
80	Trade and public dining.....	11,364.0
81	Procurement of agricultural products.....	
82	Supply and distribution services.....	
83	Other sectors not elsewhere classified.....	6,787.0

¹ Not available.

NOTES

Sector code number refers to the original unabridged 83-sector table. All figures are in 1959 purchaser's prices. Gross output of industry (sectors 1 through 73) is defined following the Soviet so-called plant method (zavodskoi metod) as the value of all finished products produced in a given period. Both shipments outside the enterprise and changes in inventories of finished goods are included. Changes in inventories of unfinished products is included as an exception in some machine-building plants. Intraplant turnover is as a rule excluded but there are some exceptions (textile and food industry sectors). Gross output of construction is defined as the value of all finished construction projects, changes in unfinished projects and capital repair and improvements of buildings and structures. Gross output of agriculture includes all shipments outside of agricultural units (kolkhoz, sovkhoz, etc.) as well as all internal turnover. Gross output of forestry, freight transportation, communications serving production, and other branches of material production is defined as gross revenue of these sectors. Gross output of trade and distribution organizations is defined total cost of conducting trade activities (izderzhki obrashcheniya) less transportation expenses plus the realized profit margin.

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TABLE A-2.—*Labor input coefficients and total employment, 1959 intersectoral balance*
 [Labor input coefficients expressed in man-years per 1,000 rubles of gross output, employment in man-years]

Sector code No.	Sector designation	Labor input coefficient	Employment
1	Ferrous ores	0.263	147,729
2	Ferrous metals	.10786	697,554
3	Coke chemistry	.032498	43,927
4	Refractory materials	.23336	53,340
5	Industrial metal products	.06307	47,150
6	Nonferrous ores	.200	130,726
7	Nonferrous metals	.08501	828,942
8	Coal	.196455	1,253,600
9	Oil extraction	.089688	86,000
10	Oil refining and processing	.015751	90,500
11	Gas	.0633	14,180
12	Peat	.58517	222,000
13	Oil shales	.10499	16,070
14	Other fuels	.08158	7,200
15	Electrical and thermal power	.11336	405,400
16	Energy and power machinery and equipment	.21216	132,000
17	Electrotechnical products	.181145	341,000
18	Cable products	.06129	47,200
19	Radioelectronic products	(1)	(1)
20	Metal and wood machine tools	.25446	150,000
21	Forging and pressing equipment	.1446	17,800
22	Casting equipment	.1462	4,200
23	Tools and instruments	.2079	75,100
24	Industrial instruments	.25608	230,000
25	Miscellaneous household durables	.08747	169,000
26	Mining and metal machinery and equipment	.20852	310,000
27	Pumps and compressors	.18148	89,000
28	Woodworking and paper machinery and equipment	.12524	4,600
29	Light industry machinery and equipment	.21520	104,000
30	Food industry machinery and equipment	.1926	45,000
31	Printing machinery and equipment	.3071	7,900
32	Hoisting and transportation equipment	.1386	44,400
33	Construction machinery	.167481	67,000
34	Construction materials machinery and equipment	.12268	16,200
35	Transportation machinery and equipment	.17552	353,000
36	Automobiles and automotive products	.11247	347,000
37	Tractors and agricultural machinery	.17604	425,000
38	Ball and roller bearing	.3152	77,000
39	Other machinery not elsewhere classified	(1)	(1)
40	Sanitary engineering equipment	.30136	130,000
41	Other metalwares and products	.232003	471,000
42	Metal frames and structures	.172236	76,300
43	Repair of all machinery and equipment	.329508	1,236,000
44	Abrasive and graphite products	.22284	27,700
45	Mineral chemistry products	.208295	26,200
46	Basic chemistry products	.08604	105,900
47	Aniline dyes	.11874	18,700
48	Synthetic resins and plastics	.098	32,700
49	Synthetic fibers	.167	58,600
50	Synthetic rubber	.030	18,000
51	Organic synthetic products	.12617	124,000
52	Paints and lacquers	.03812	38,400
53	Rubber and asbestos products	.05211	100,000
54	Other chemicals not elsewhere classified	.108	140,000
55	Logging and timber	.32722	1,600,000
56	Lumber and woodworking	.210106	900,000
57	Furniture	.22305	270,000
58	Other woodworking	.1993	50,000
59	Paper products	.11571	147,000
60	Forest chemistry products	.10826	32,800
61	Construction materials	.222236	1,623,300
62	Glass and porcelain-faience	.244194	214,300
63	Textiles	.070793	1,820,000
64	Sewn goods and apparel	.13268	1,200,000
65	Footwear, tanner and fur products	.08287	720,000
66	Fish and fish products	.13615	
67	Meat and meat products	.084460	
68	Milk and dairy products	.05799	
69	Sugar	.027121	2,530,000
70	Flour and cereals	(1)	
71	Bread and bakery products	(1)	
72	Other food products not elsewhere classified	.027611	
73	Other industry products not elsewhere classified	(1)	
74	Construction	.2162	6,208,000
75	Crops (agriculture)	.617251	33,100,000
76	Animal husbandry		

See footnote at end of table, p. 199.

TABLE A-2.—*Labor input coefficients and total employment, 1959 intersectoral balance*—Continued

[Labor input coefficients expressed in man-years per 1,000 rubles of gross output, employment in man-years]

Sector code No.	Sector designation	Labor input coefficient	Employment
77	Forestry.....	1.14302	352,000
78	Freight transportation.....	(¹)	5,300,000
79	Communications.....	(¹)	
80	Trade and public dining.....	.52	
81	Procurement of agricultural products.....	(¹)	5,171,000
82	Supply and distribution services.....	.331	
83	Other sectors not elsewhere classified.....	.25181	1,709,000

¹ Not available.

NOTES

In the framework of an intersectoral balance employment is defined as total employment (i.e., productive workers, engineering supervisory, and clerical personnel and apprentices), expressed in man-years and averaged for the year. It will be noted that the industrial employment coverage used in the balance is broader than the coverage shown in Soviet statistical yearbooks. In addition to workers and other employees of state industrial enterprises the employment figure shown in the balance includes members of producer cooperatives (*artol'*) and those employed in small-scale industrial shops such as collective farm flour mills or blacksmith shops. As was noted in the text the balance is showing sectors and branches adjusted to represent homogeneous output with the production of all auxiliary and secondary products removed.

Supplementary Tables—Section B

TABLE B-1.—*Sector classification*

Sector code No.	Sector designation	Description	Including sectors numbered	
			As published	Full
1	Ferrous ores.	Ferrous ores.	(1)	1
2	Ferrous metals.	Ferrous metals.	(1)	2
3	Nonferrous ores.	Nonferrous ores.	(1)	6
4	Nonferrous metals.	Nonferrous metals.	(1)	7
5	Coking chemistry.	Coking coal and coking chemistry products.	2	3
6	Metal products.	Industrial metal products and refractory materials.	3-4	4-5
7	Coal.	Coal.	5	8
8	Oil.	Oil extraction and oil processing.	6-7	9-10
9	Gas.	Gas.	8	11
10	Other fuels.	Peat, oil shales, other fuels.	9-11	12-14
11	Electrical power.	Electrical and thermal power.	12	15
12	Electrical and power machinery and equipment.	Boilers, turbines, diesel and steam engines, electrical machinery, equipment, and appliances.	13-14	16-17
13	Tools and instruments.	Cable products, tools and instruments, industrial instruments, household durbables, roll bearings.	15, 19-21, 34	18, 23-25, 38
14	Machinery and equipment.	Machine tools, forging and pressing equipment, casting equipment; machinery and equipment for mining, metallurgical, chemical, woodworking, paper, light, food and printing industries; hoisting and transporting equipment, construction machinery and equipment, machinery and equipment for construction materials industry.	16-18, 22-30	20-22, 20-34
15	Transportation machinery and equipment.	Machinery and equipment of railroads; shipbuilding, aircraft production.	31	35
16	Automobiles.	Automobiles.	32	36
17	Agriculture machinery and equipment.	Tractors and other agricultural machinery and equipment.	33	37
18	Machinery not elsewhere classified.	Radiotelecommunications and other machinery and equipment not elsewhere classified.	None	19, 39
19	Metalworking.	Sanitary engineering equipment, other metalwares and products, metal frames and structures.	35-37	40-42
20	Repair of all machinery and equipment.	Repair of all machinery and equipment.	38	43
21	Abrasives and graphite.	Abrasives and graphite products.	39	44
22	Mineral and basic chemistry.	Mineral and basic chemistry products.	40-41	45-46
23	Other chemical products.	Aniline dyes, synthetic resins and plastics, synthetic fibers, other organic synthetic products, paints and lacquers, synthetic rubber and chemicals not elsewhere classified.	42-46, 48	47-52, 50, 54
24	Rubber products.	Rubber and asbestos products.	47	53
25	Woodworking.	Logging and timber, lumber and wood-working, furniture, matches and other wood products, not elsewhere classified, forest chemistry products.	49-52, 54	55-58, 60
26	Paper.	Paper.	53	59
27	Construction materials.	Construction materials.	55	61
28	Glass.	Glass and porcelain-faience.	56	62
29	Textiles.	Textiles.	57	63
30	Apparel, footwear.	Apparel, sewn goods, footwear, tanner and fur products.	58-69	64-65
31	Food.	Fish, meat, milk and dairy products, sugar, flour, bread and bakery products, tobacco products, all beverages and all food not elsewhere classified.	60-65	66-72
32	Industrial products.	Industrial products not elsewhere classified: toys, musical instruments, printing, etc.	None	73

¹Part of 1.

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TABLE B-1.—*Sector classification*—Continued

Sector code No.	Sector designation	Description	Including sectors numbered	
			As published	Full
33	Construction	Construction	66	74
34	Agriculture	Crops and animal husbandry	68-69	75-76
35	Forestry	Forestry	70	77
36	Transport and communications.	Transportation and communications	71	78-79
37	Trade and distribution.	Trade and public dining, procurement of agricultural products, supply and distribution services.	72	80-82
38	Other sectors not elsewhere classified.	Metal scrap, publishing, noncommercial fishing and hunting, etc.	73	83

NOTES

Sector numbers "As published" refer to the published 73-sector segment of quadrant I.
 Sector numbers designated as "Full" refer to the original, unabridged 83-sector flow table.

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TABLE B-2.—THE 1959 SOVIET INTERSECTORAL BALANCE (RECONSTRUCTED)

Part I. Flow table

[In 1,000,000 rubles; employment in 1,000 man-years]

Producing sectors		Consuming sectors																					
		Coal	Oil	Gas	Other fuels	Electric and power equipment	Machinery and equipment	Tools and instruments	Transportation materials	Tractors and agricultural machinery	Machinery classified elsewhere	Metallurgy	Machinery and equipment										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)		
1. Ferrous ores	0.9	291.5	0	47.3	0	28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2. Ferrous metals	8.6	854.2	15.9	0	1.6	466.5	28.8	3.9	.6	3.0	0	3.6	374.0	176.6	650.6	192.8	220.4	292.6	50.0	564.4	343.3	7.0	
3. Nonferrous ores	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4. Nonferrous metals	0	532.7	0	551.5	0	5.8	2.8	1.2	.3	1.0	.5	.9	483.2	145.8	145.8	146.6	146.6	31.6	50.0	88.7	118.7	3.0	
5. Coke	6.0	733.0	0	154.1	91.3	16.7	6.8	1.1	0	0	0	0	3.0	8	21.5	2.5	6.6	9.3	31.5	12.6	1.2	48.2	
6. Metal products	3.8	892.8	3.2	22.8	0	31.3	13.2	2.5	1.1	2.2	1.6	0	19.7	53.5	14.2	37.3	26.0	13.9	39.4	50.4	3.1	25.5	
7. Coal	13.9	523.6	10.8	24.1	968.6	14.0	941.2	1.0	5.8	706.9	19.0	7.8	28.6	17.8	14.9	9.0	14.2	9.1	14.2	50.3	50.3	25.6	
8. Oil	3.1	101.6	22.6	71.7	1.6	1.0	41.5	1.1	1.7	245.5	24.8	11.9	46.5	16.0	25.4	14.6	13.0	10.9	59.7	4.4	15.1	1.7	
9. Gas	.1	2.4	1.5	1.7	1.9	1.4	1.4	1.1	1.3	68.4	1.4	.1	.4	.4	.6	.6	.7	1.3	.9	.9	.1	.6	
10. Other fuels	0	25.1	12.3	201.5	35.2	30.5	18.2	1.1	1.0	10.6	20.8	231.7	1.0	3	15.0	2.8	1.4	1.9	2.8	1.4	2.8	1.4	
11. Electrical power	1.5	7.0	2.1	2.3	.6	.7	6.1	1.1	2	0	8.0	191.2	29.6	210.3	228.4	18.0	19.5	278.8	16.3	58.0	.2	1.9	
12. Electrical and power machinery and equipment	3.3	15.5	4.7	5.1	.5	.7	27.2	3.2	.3	4.7	3.2	127.1	129.5	111.0	33.6	37.5	49.8	107.8	12.7	88.2	.6	3.5	
13. Tools and instruments	9.4	43.9	13.3	14.6	.5	4.3	57.1	22.3	.4	7.8	.3	2.3	1.9	188.6	11.9	1.1	3.6	11.6	2.0	20.7	.1	7.0	
14. Machinery and equipment	.3	1.6	1.5	0	0	2	0	0	1.5	0	0	0	0	12.5	91.2	0	0	7.1	0	65.2	0	1.9	
15. Transportation machinery and equipment	.8	3.8	1.1	1.3	0	1.0	.5	1.1	1.1	.7	.5	3.1	8.2	126.2	8.6	315.1	11.4	86.7	3.7	252.0	.1	1.9	
16. Autos	.3	1.3	.4	.5	0	.1	.7	.1	.7	0	4.6	.1	18.5	0	87.8	3.6	.1	217.5	60.4	2.2	204.2	0	
17. Tractors and agricultural machinery and equipment	.3	0	0	0	0	0	0	0	0	0	0	0	0	21.0	25.3	6.6	91.5	47.7	9.5	14.0	136.3	0	10.8
18. Machinery, not elsewhere classified	1.3	5.8	1.8	1.9	.2	1.5	10.1	.7	.7	0	10.1	1.1	20.7	2.9	33.3	42.1	14.7	3.7	0	45.6	43.7	.4	
19. Metallworking																							

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20. Repair of all machinery and equipment.....	101.7	30.8	33.9	3.3	4.9	2.1	32.3	2.0	1.3	50.6	6.5	7.0	12.6	6.1	6.4	2.4	0	3.1	0	2.8	10.6				
21. Abrasives and graphite.....	21.9	3.2	1.7	1.1	0	1.3	.3	.1	.1	47.3	8.4	5.3	3.9	3.2	3.4	0	2.2	3.1	8.6	.1					
22. Mineral and basic products.....	1.2	2.5	14.7	9.1	13.0	15.5	3.3	4.2	41.2	4.2	2.3	3.9	15.5	6.1	10.3	5.9	6.4	7.9	6.4	3.7	151.6				
23. Other chemistry.....	6.4	2.5	14.7	3.4	4.9	5.5	2.3	4.7	16.1	1.2	.7	1.4	72.4	95.0	41.1	25.8	36.2	17.9	48.6	35.2	64.4	3	36.5		
24. Rubber products.....	2.5	15.3	3.5	5.1	.7	1.7	26.9	1.2	.1	3.0	.8	21.4	15.3	85.8	16.4	375.8	92.2	28.9	5.0	23.8	.2	2.2			
25. Lumber and wood-working.....	2.5	14.3	38.6	20.0	12.9	.9	15.3	396.5	5.1	.5	13.6	2.9	28.2	32.9	59.1	56.7	26.9	33.7	35.4	15.0	107.3	.5	14.9		
26. Paper.....	.6	1.6	2.5	2.1	.2	1.6	11.9	4.4	.2	.8	1.8	5.6	2.4	7.5	14.7	2.6	1.0	2.0	4.6	3.9	.4				
27. Construction materials.....	2.3	6.3	3.9	2.1	.2	1.6	11.9	4.4	.2	.8	1.4	5.5	12.6	1.8	3.5	3.5	0	5.0	30.0	.1					
28. Glass.....	1.2	.8	4.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.7	0	4.6	6.3	.1					
29. Textiles.....	1.4	8.7	1.9	2.9	3.6	22.8	1.9	1.0	.1	.6	1.0	30.5	34.2	9.8	16.9	18.0	14.1	25.0	6.4	27.6	11.8	7.8			
30. Apparel and footwear.....	8.0	51.5	11.3	17.2	3.6	15.9	132.3	9.0	.8	15.3	9.5	13.8	19.4	39.8	16.5	35.2	18.1	0	20.0	27.4	1.1	20.2			
31. Food.....	1.0	6.2	1.3	2.1	.6	.4	1.7	1.9	.1	.3	1.5	4.7	3.2	8.8	2.2	2.1	1.1	0	1.8	3.3	2.7	20.2			
32. Industrial products not elsewhere classified.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
33. Construction.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
34. Agriculture.....	0	.6	0	.8	0	.3	2.6	.1	.1	.2	0	.2	.1	.1	.1	.1	.1	0	.2	0	0	.3			
35. Forestry.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
36. Transportation and communications.....	80.0	400.0	35.2	140.9	44.3	57.3	528.21	184.1	2	66.5	4.8	58.7	44.0	195.2	17.6	116.6	131.8	23.0	228.1	17.0	4.5	514.0			
37. Trade and distribution.....	19.0	219.4	27.3	129.6	0	30.7	146.2	680.8	14.4	1.5	8.8	36.7	63.5	18.8	0	51.7	49.2	77.1	102.9	0	0	21.7			
38. Other sectors not elsewhere classified.....	0	88.7	0	88.6	0	0	0	0	0	0	0	0	0	4.8	3.9	17.1	8.5	2.8	16.2	8.0	18.6	7.4	0		
39. Total quad 1 use.....	240.4	321.5	240.42	365.41	190.1	735.83	481.33	288.9	50.1	1215.61	484.01	452.4	302.9	92.465	1.1	595.1	149.9	1.1	322.51	1.1	810.3	65.5	1.025.3		
40. Value added.....	322.12	148.5	537.11	464.61	161.6	61240.42	889.73	404.1	1215.9	234.14	12.092.01	1.049.72	750.11	1.889.61	1.015.41	1.883.91	1.1280.13	1.882.11	1.572.51	1.939.7	59.1	1331.7			
41. Total outlay.....	562.16	470.0	827.53	830.01	351.7	976.26	381.06	703.0266.0	550.03	3.576.02	592.14	1.053.01	1.3436.62	1.010.03	1.084.02	1.420.05	1.113.2	895.03	1.750.124.6	1.557.0	677.31	236.0	27.7	132.1	
42. Employment.....	147.7	697.9	130.7	328.9	43.9	10.51	233.6	176.5	14.2	245.3	45.4	588.3	860.1	347.0	425.01	240.8	677.31	240.8	0	0	0	0	0		

Part I. Flow table—Continued

[In 1,000,000 rubles; employment in 1,000 man-years]

Producing sectors		Consuming sectors—Continued																		
		Food			Agriculture			Construction			Manufacturing									
(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)		
1. Ferrons.	0	0	0	0	4.7	6.2	7	0	69.1	70.0	1,365.0	0	0	0	0	0	332.3	179.8	562.1	
2. Ferrons metals.	0	0	0	0	199.6	5.0	7.8	0	0	0	0	0	0	0	0	0	6,099.0	371.0	6,470.0	
3. Nonferrous metals.	0	0	0	0	22.8	0	0	2.7	18.4	30.4	21.7	0	0	0	0	0	827.5	0	827.5	
4. Nonferrous metals.	0	0	0	0	47.3	4.0	2.5	1.9	0	0	0	0	0	0	0	0	1,108.9	3,320.0	3,320.0	
5. Coke.	0	0	0	0	1.9	13.2	1.1	2.5	12.9	12.9	0	0	0	0	0	0	2,720.1	1,108.9	3,320.0	
6. Metal products.	0	0	0	0	45.2	4.1	10.7	9.5	17.1	182.5	20.8	282.6	12.1	0	0	0	1,235.0	98.7	1,351.7	
7. Coal.	0	0	0	0	55.4	1.9	42.8	24.5	53.0	17.1	182.5	49.5	11.7	0	0	0	581.0	2.5	581.0	
8. Oil.	0	0	0	0	28.7	47.1	251.1	20.4	194.7	20.4	194.7	306.5	1,051.7	5.1	961.6	0	68.6	2.9	76.2	
9. Gas.	0	0	0	0	46.4	14.5	148.5	20.4	12.4	12.4	12.4	0	0	0	0	0	1,063.3	1,348.4	6,831.0	
10. Other fuels.	0	0	0	0	12.0	13.0	12.7	9	1.2	3	4.4	4.5	9.7	0	0	0	130.3	135.7	6,703.0	
11. Electrical power.	0	0	0	0	27.5	9.6	27.8	13.9	21.3	8.0	15.1	1.9	8.5	3	0	0	105.7	266.0	550.0	
12. Electric and power machinery and equipment.	0	0	0	0	47.8	42.7	13.4	112.5	46.6	111.5	60.7	200.6	88.3	0	0	0	444.3	1,133.9	3,576.0	
13. Tools and instruments.	0	0	0	0	21.7	2.4	23.5	1.6	5.6	34.4	127.3	38.8	0	0	0	2,442.1	2,442.1	3,576.0		
14. Machinery and equipment.	0	0	0	0	21.2	6.3	36.4	1.1	40.8	9.6	24.0	23.7	84.0	0	0	0	1,334.7	1,167.4	2,502.1	
15. Transportation and communications.	0	0	0	0	2.6	0	1	0	0	0	4	11.5	6.4	3.5	0	0	1,151.5	2,910.0	2,910.0	
16. Autos.	0	0	0	0	67.7	.5	20.9	.4	1.5	.6	4.1	38.4	70.6	18.0	0	0	1,281.4	1,822.6	3,084.0	
17. Tractors and agricultural machinery and equipment.	0	0	0	0	57.4	.1	7.2	.1	4	0	6	27.7	45.4	159.0	3.5	1.5	0	0	1,522.7	2,430.0
18. Machinery not elsewhere classified.	0	0	0	0	92.7	0	0	0	0	0	82.0	61.0	228.8	414.9	0	69.0	136.7	0	1,650.9	5,111.3
19. Metal working.	0	0	0	0	15.6	11.2	20.8	28.3	57.3	62.8	1,268.9	156.6	3.1	0	0	0	1,915.6	975.4	2,895.0	
20. Repair of all machinery and equipment.	0	0	0	0	47.1	3.4	89.5	24.5	14.4	5.5	229.2	64.7	0	1,028.1	0	86.3	0	0	1,980.5	3,750.0
21. Abrasives and graphite products.	0	0	0	0	5.1	.1	1.0	1.5	.2	1.5	0	9.5	5.2	0	0	0	1.5	0	121.6	124.6
22. Mineral and basic chemistry.	0	0	0	0	18.4	4.4	4.7	2.1	.2	11.3	27.7	80.3	17.7	355.6	2.7	9.2	7.5	.1	1,128.3	228.7

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23. Other chemistry-----	3.4	10.9	11.1	334.7	208.0	48.3	239.7	203.8	55.4	0	51.7	12.0	11.8	3,382.4	1,330.6	4,713.0	
24. Rubber products-----	61.6	73.6	72.5	202.6	202.5	28.9	289.3	121.4	12.6	0	359.9	54.4	2.9	1,729.2	270.8	2,000.0	
25. Lumber and woodworking-----	12.9	12.4	12.4	122.6	122.2	31.4	45.5	74.0	64.6	2	982.3	113.5	1.1	171.1	205.0	11,033.0	
26. Paper-----	17.1	209.7	5.3	80.1	26.2	4.3	6.9	17.3	96.4	22.6	1.1	1.4	3.1	582.0	163.5	1,267.0	
27. Construction materials-----	45.7	1.1	11.3	6.81	273.4	7.0	6.8	25.3	0	5,380.9	16.2	.9	.6	6,886.3	417.7	7,304.0	
28. Glass-----	3.6	39.6	.4	9.9	13.0	3.7	49.4	0	519.3	5.6	1	0	.2	6,525.8	352.1	877.4	
29. Textiles-----	27.5	395.1	203.1	8.4	9.8	5.8	6,206.7	6,981.9	85.6	9.4	46.2	0	0	14,739.5	10,910.5	25,700.0	
30. Apparel and footwear-----	57.9	154.1	6.1	42.6	9.1	25.2	2,154.3	108.8	0	535.5	99.8	.2	.1	3,810.1	13,689.8	17,300.0	
31. Food-----	22.5	405.6	7.0	31.0	1.3	7.8	.8	20.5	599.6	13,365.8	819.7	85.2	0	0	40,799.8	57,900.0	
32. Industrial products elsewhere classified-----	13.4	7.5	0	0	92.8	0	25.0	0	0	0	128.3	0	0	0	454.9	5,075.5	5,330.4
33. Construction-----	0	0	32.6	1.1	0	6	0	0	0	0	0	0	0	0	28,711.9	28,711.9	
34. Agriculture-----	11.5	0	142.8	0	0	0	3,980.3	490,51,6497.3	207.8	11.2	436.5	4.5	19.0	0	33,669.5	30,030.5	55,700.0
35. Forestry-----	0	0	55.8	1,626.1	72.91	726.1	86.0	284.7	159.6	2,112.3	43.8	38.9	0	0	76.7	308.0	
36. Transportation and communications-----	35.1	49.1	17.3	404.4	89.5	338.7	88.5	700.3	763.7	3,681.6	722.7	0	2,857.6	0	0	0	11,256.2
37. Trade and distribution-----	55.3	10.7	0	78.1	51.5	10.7	0	97.9	80.7	232.0	270.7	6.0	0	0	0	1,218.2	5,568.8
38. Other sectors not elsewhere classified-----	2,557.8	1,431.1	6,345.5	831.0	5,014.8	411.4	11,983.0	11,711.7	36,540.9	3,271.3	14,102.0	32,215.7	7,730.0	0	227.6	154,005.2	145,021,7309,026.9
39. Total quad 1 use-----	2,155.2	588.9	4,687.5	436.0	2,289.2	466.0	13,717.0	5,788.3	21,259.1	12,259.1	11,14,102.0	32,215.7	7,730.0	0	9,433.96	4,459.4	135,021.7
40. Value added-----	4,713.0	2,000.0	11,038.0	1,297.7	394.0	577.4	23,700.0	17,500.0	57,800.0	5,530.4	28,711.9	53,700.0	308.0	11,256.2	21,113,633.96	96,787.0	309,026.9
41. Total outlay-----	431.1	100.0	2,832.8	147.0	623.3	214.3	31,820.0	1,920.0	5,380.0	600.0	6,208.0	33,100.0	332.0	5,360.0	5,171.0	17,799.0	73,983.7
42. Employment-----																	

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TABLE B-2.—The 1959 Soviet Intersectoral Balance (RESTRUCTURED)

Part II. Table of direct input coefficients—Technology matrix

[Material coefficients in rubles per ruble of gross output; labor input coefficients in man-years per 1,000 rubles of gross output]

Producing sectors		Consuming sectors																		
		1. Ferrous ores	2. Ferrous metals	3. Nonferrous ores	4. Nonferrous metals	5. Coke	6. Metal prod.	7. Coal	8. Oil	9. Gas	10. Other fuels	11. Electrical power	12. Electric power	13. Tools and instruments	14. Machinery and equipment	15. Transportation machinery and equipment	16. Autos	Metalworking		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)		
1. Ferrous ores	0.00169	0.04505	0	0.01235	0	0.00118	0.02868	0	0.00451	0	0.00148	0	0.00226	0	0.00545	0	0.00101	0	0.00978	0.19496
2. Ferrous metals	.01530	.13202	0	0.1921	0	0.0097	.20846	0	0	0	0	0	0	0	0	0	0	0	0	0
3. Nonferrous ores	0	0	0.0097	.20846	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4. Nonferrous metals	0	0	0.0097	.20846	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Coke	0	0.01067	0	0.0543	0	14399	0.06754	0	0.00594	0.0044	0.00018	0	0.00091	0	0.00025	0	0.00120	0.00020	0.00124	0.00333
6. Metal prod.	0	0.01067	0	0.0543	0	0.04023	0	0.01711	0.00045	0.00101	0.00058	0	0	0	0	0	0	0	0	0.00334
7. Coal	0	0.00676	0.01387	0.00535	0.00359	0.03206	0.01844	0.13183	0.00031	0.00291	0.00038	0.00037	0.00012	0.00787	0.00782	0.00207	0.01340	0.00706	0.01269	0.01361
8. Oil	0	0.02473	0.01224	0.01305	0.00890	0.01872	0.01827	0.01118	0.01455	0.0124	0.01541	0.01236	0.02127	0.02285	0.00759	0.00192	0.00635	0.00583	0.00178	0.00491
9. Gas	0	0.00018	0.00377	0.00532	0.00060	0.00044	0.00667	0.00143	0.0002	0.00021	0.00015	0.00015	0.00013	0.00016	0.00016	0.00016	0.00019	0.00024	0.00624	0.00254
10. Other fuels	0	0.00003	0.00012	0.00012	0.00012	0.00013	0.01346	0.00110	0.00032	0.00032	0.00033	0.00033	0.00033	0.00032	0.00032	0.00016	0.00016	0.00016	0.00016	0.00014
11. Electric power	0.04465	0.13356	0.1486	0.0561	0.02604	0.0381	0.00357	0.00440	0.00895	0.00333	0.00150	0.00123	0.00123	0.00123	0.00123	0.00047	0.00047	0.00047	0.00047	0.00047
12. Electrical and power machinery and equipment	0	0.00267	0.0108	0.02554	0.00660	0.00041	0.00072	0.00096	0.00016	0.00075	0.00364	0.00224	0.00089	0.00089	0.00089	0.00089	0.00089	0.00089	0.00089	0.00089
13. Tools and instruments	0	0.00537	0.00240	0.00563	0.00133	0.00357	0.00759	0.00426	0.00048	0.00113	0.00585	0.00055	0.00055	0.00055	0.00055	0.00055	0.00055	0.00055	0.00055	0.00055
14. Machinery and equipment	0	0.01672	0.00673	0.01807	0.00881	0.00357	0.00440	0.00895	0.00333	0.00150	0.01418	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
15. Transportation machinery and equipment	0	0.00053	0.00142	0.00251	0.00060	0.00013	0	0.00016	0	0.00016	0	0.00014	0	0.00014	0	0.00014	0	0.00014	0	0.00014
16. Autos	0	0.00053	0.00142	0.00251	0.00060	0.00013	0	0.00016	0	0.00016	0	0.00016	0	0.00016	0	0.00016	0	0.00016	0	0.00016

17. Tractors and agricultural machinery and equipment	.00048	.00013	0	.00010	.00011	.00025	0	.00836	.00003	.00739	0	.00112	.00003	.00851	.00003	.01182	.00076		
18. Machinery not elsewhere classified	.00053	.00020	0	.00050	0	.00015	0	.00154	.00118	.00376	.00370	.00587	.01011	.00163	.02096	.02373	.00308	.00576	
19. Metalworking	0	.00231	0	.00218	0	.00050	0	.00154	.00138	.00010	0	.00327	.00072	.00774	.00072	.00477	.00152	0	
20. Repair of all machinery and equipment	.08896	.01572	.03722	.00885	.02444	.00502	.00033	.00482	.00752	.00236	.01607	.00260	.00173	.00289	.00104	.00206	.00099	0	
21. Abrasives and graphite products	.00213	.00049	.00205	.00229	0	.00133	.00005	.00001	0	.00018	.00003	.01890	.00207	.00121	.00194	.00104	.00140	0	
22. Mineral and basic chemistry	.01139	.00633	.01100	.00339	.01147	.00338	.00096	.00615	.00150	.00418	.00109	.00619	.00151	.00236	.00234	.00298	.00128	.00155	
23. Other chemistry	.00445	.00227	.00411	.00128	.00037	.00236	.00027	.00240	.00451	.00127	.00039	.02854	.00942	.01284	.01174	.00737	.00737	* 0.0051	
24. Rubber products	.00445	.00236	.00423	.00133	.00052	.00174	.00422	.00018	.00038	.00545	.00022	.00835	.00377	.01966	.00816	.02135	.03734	.00761	
25. Lumber and woodworking	.02544	.00597	.02417	.00327	.00067	.01567	.06214	.00076	.00188	.02473	.00081	.01217	.00812	.01354	.02821	.00822	.01387	.00693	
26. Paper	.00107	.00025	.00109	.00013	.00007	.01004	.00008	.00012	0	.00018	.00006	.00460	.00237	.00085	.00050	.00120	.00066	.00069	
27. Construction materials	.00409	.00097	.00399	.00035	.00015	.00164	.00156	.00066	.00075	.00145	.00024	.00059	.00172	.00034	.00082	.00082	.00173	.00159	
28. Glass	.00089	.00019	.00073	.00010	.00007	.00020	.00008	.00004	.00015	.00018	.00011	.00540	.00311	.00174	.00041	.00047	.00047	.000221	
29. Textiles	.00249	.00134	.00230	.00076	.00022	.00236	.00063	.00015	.00038	.00019	.00028	.00225	.00219	.00844	.00796	.00534	.00535	.00535	
30. Apparel and footwear	.01423	.00796	.01366	.00449	.00266	.01629	.02013	.00134	.00301	.02782	.00285	.00532	.00479	.00912	.00821	.01141	.00735	0 .00691	
31. Food	.00178	.00096	.00157	.00055	.00044	.00041	.00027	.00028	.00038	.00015	.00055	.00042	.00198	.00079	.00087	.00109	.00068	.00645	0 .0062
32. Industrial products not elsewhere classified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Construction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 .0003	
34. Agriculture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. Forestry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
36. Transportation and communications	.14232	.06182	.04254	.00679	.03277	.05870	.23949	.17665	.00075	.12091	.00134	.02346	.01086	.04472	.00876	.03781	.05424	.00450	
37. Trade and distribution	.03280	.03291	.03299	.03324	0	.03145	.02291	.10157	.05414	.00273	.01467	.01567	.00431	0	.01676	.02055	.01508	.03554	
38. Other sectors not elsewhere classified	0	.01371	0	.02313	0	0	0	0	0	0	0	.00192	.00096	.00392	.00423	.00091	.00637	.00157 .00642	
39. Labor input coefficients	.26300	.10756	.20000	.085912	.032498	.102040	.193455	.028331	.063300	.445945	.113360	.189041	.145182	.197063	.175320	.112470	.173040	.242756 .233055	

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Part II. Table of direct input coefficients—Technology matrix—Continued

Producing sectors	Consuming sectors—Continued																			
	Repairs of all machinery and equipment			Agriculture			Food			Textiles			Glass			Nonmetallic minerals				
	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	
1. Ferrous ores	0	0.01605	0.00125	0	.00516	0	0.00164	0	0.00426	0	0.00064	0.00707	0	0.00015	0	0.0120	0	0.00010	0	
2. Ferrous metals	0	.09155	.01864	0	.00332	0	.00158	0	0	0	.00312	0	.00570	0	0.00030	0	0	0	0	
3. Nonferrous ores	0	.02006	.00221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4. Nonferrous metals	0	0.0155	.01864	0	.00332	0	.00158	0	.00426	0	.00064	0.00707	0	0.00015	0	0.00010	0	0	0	
5. Coke	0.0165	.02006	.00221	0	0	0	.00195	.00027	.00150	.00150	.00648	.00456	.00010	.00032	.00010	.00010	.00001	0	0	
6. Metal products	0.01344	.00663	.03182	.01042	.00310	.00181	.00088	.00010	.00110	.00110	.00181	.00088	.00011	.00002	.00002	.00002	.00001	.000143	.000033	
7. Coal	0.01341	.00401	.00405	.00408	.00370	.00302	.00150	.00150	.00150	.00150	.00586	.01220	.00037	.00074	.00021	.00021	.00023	.00023	.00022	.00022
8. Oil	0.01341	.02488	.02485	.02486	.02240	.00290	.08717	.08717	.08717	.08717	.03458	.02792	.00206	.00316	.00316	.00316	.00326	.00326	.00326	
9. Gas	0.01341	.02488	.02485	.02486	.02635	.02635	.02635	.02635	.02635	.02635	.02933	.02325	.00739	.00071	.00327	.00327	.00327	.00327	.00327	
10. Other fuels	0.00337	0	.00080	.00044	.00039	.00010	.00004	.00008	.00008	.00008	.00174	.00103	.00005	.00002	.00002	.00002	.00002	.00002	.00002	
11. Electrical power	0.01579	.07143	.04915	.02128	.01340	.00433	.00433	.00370	.00370	.00370	.03064	.01527	.00438	.00278	.00278	.00278	.00278	.00278	.00278	
12. Electrical and power machinery and equipment	0.01547	.00161	.00140	.00083	.00083	.00025	.00062	.00062	.00062	.00067	.00103	.00015	.00014	.00010	.00010	.00010	.00010	.00010		
13. Tools and instruments	0.02552	.00482	.00258	.00079	.00140	.00197	.00189	.00322	.00182	.00023	.00019	.00018	.00018	.00018	.00018	.00018	.00018	.00018	.00018	
14. Machinery and equipment	0.00552	.00080	.00516	.00127	.00085	.00192	.00497	.00498	.00126	.00159	.00055	.00055	.00042	.00429	.00429	.00429	.00429	.00429	.00429	
15. Transportation machinery and equipment	0.01739	0	.00007	.00002	.00015	.00015	.00080	.00080	.00080	.00080	.00001	.00001	.00001	.00001	.00001	.00001	.00001	.00001	.00001	
6. Autos	.06729	0	.00007	.00002	.00014	0	.00039	.00039	.00039	.00039	.00046	.00046	0	.00006	.00006	.00006	.00006	.00006	.00006	

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17. Tractors and agricultural machinery and equipment	.05445	0	.00022	.00002	0	.00520	.00008	.00098	.00011	.00002	0	.00001	.00501	.00158	.00296	.01138	.00013	0	0		
18. Machinery not elsewhere classified	.13233	0	.00796	.00225	0	.00240	.00195	.00685	0	.00237	0	.01269	0	.00214	.01276	.00081	0	.00112	.01103	.00773	
19. Metalworking	.01165	.00621	.00228	.00248	0	.00240	.00195	.00685	0	.00237	0	.00093	0	.00093	.01136	.004210	.00292	.01065	0	.01203	0
20. Repair of all machinery and equipment	0	.02247	.00781	.00707	.00160	.00427	.00268	.01225	.02782	.00056	.00631	.00397	0	.01170	0	.01915	0	.00010	0	.00013	0
21. Abrasives and graphite products	.00083	.06902	.00007	.00023	.00005	.00046	.00008	.00034	.00171	.00001	.00009	0	0	.00033	.00010	0	0	.00010	0	.00013	0
22. Mineral and basic chemistry	.00269	.02670	.11172	.04373	.00220	.00136	.01452	.00064	.00239	.00001	.00065	.00048	.01432	.00062	.00662	.00877	.00082	.00062	.00066	.00001	.00001
23. Other	.01717	.00241	.02690	.20692	.30050	.00721	.00268	.00149	.01245	.01302	.01189	.00075	.04354	.00710	.00103	0	.00449	.00106	.00174	0	0
24. Rubber products	.00635	.00161	.00162	.00274	.10485	.006557	.00163	.00281	.00103	.00112	.00160	.00013	.02195	.00241	.00023	0	.03197	.00479	.00043	0	0
25. Lumber and woodworking	.02861	.00401	.01098	.01714	.00885	.24655	.25620	.01673	.03579	.00177	.00423	.00501	.01168	.10387	.00211	.00835	.01520	.01804	.00029	0	0
26. Paper	.00104	.00321	.00575	.00970	.00055	.00048	.00098	.00322	.00359	.00450	.00027	.00099	.00128	.01725	.00114	.00000	.00130	.00028	.00121	.00409	0
27. Construction materials	.00580	.00401	.00253	.00076	.00045	.00102	.00537	.00537	.00537	.00798	.00026	.00044	0	.00021	.00030	.00292	.00002	.00001	0	0	0
28. Glass	.00168	.00080	.00088	.00583	.00110	.00359	.00032	.00012	.00482	.00003	.00005	.00035	.00012	.01112	.00009	.00032	0	.00032	0	.00032	0
29. Textiles	.00736	.00470	.00575	.01226	.19755	.01941	.00665	.00134	.00661	.24151	.33897	.00148	.00170	.00104	.00086	0	.00658	.00342	.00342	0	0
30. Apparel and footwear	.00731	.00883	.01489	.00477	.00255	.01597	.00481	.00588	.01687	.00098	.12310	.00188	0	.01865	.00065	.00629	.00784	.00016	0	0	0
31. Food	.00088	.02167	.01489	.08606	.00350	.00281	.00103	.00107	.00080	.03426	.23124	.14822	.00237	.02947	0	.00099	0	.00099	0	0	0
32. Industrial products not elsewhere classified	0	0	.00391	.00284	.00375	0	0	.01271	0	.00097	.00143	0	0	0	.00239	0	0	0	0	0	0
33. Construction	0	0	.00022	.00244	0	.00225	.00087	.00008	.00034	0	.00034	.00034	.00034	.00034	.00034	.00034	.00034	.00034	.00034	.00034	.00034
34. Agriculture	0	0	0	0	0	.01284	0	.01284	0	.01284	0	.01458	0	.02803	.02840	.03757	.000639	.000639	.000639	.000639	.000639
35. Forestry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.00232	0	.02139	0	.01461	.00169	0
36. Transportation and communication	.00443	.03612	.37878	.00745	.02790	.14789	.05754	.23632	.06892	.01108	.00912	.02697	.00792	.00135	.01419	.01623	.00437	.01025	.01179	0	0
37. Trade and distribution	0	0	.01599	.01042	.00865	.03865	.07064	.04637	.10087	.02725	.04021	.06370	.13068	0	.05321	0	0	0	.00172	0	0
38. Other sectors not elsewhere classified	.00197	0	0	.01173	.00535	0	.06164	.00705	.01220	0	.00559	.00140	.05280	.00943	.00011	0	0	0	0	0	0
39. Labor input coefficients	.329508	.222640	.097347	.091534	.050000	.258570	.115710	.222236	.244194	.070793	.010971	.043772	.109024	.216290	.617251	.143020	.470852	.455037	.251810	0	0

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TABLE B-2.—THE 1959 SOVIET INTERSECTORAL BALANCE (RECONSTRUCTED)
 Part III. Table of full input coefficients—Inverse of the technology matrix (1-A)⁻¹

Producing sectors		Consuming sectors										Metalworking							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	
1. Ferrous ores	0.03838	0.05324	0.08211	0.01576	0.01110	0.05404	0.00109	0.00060	0.00041	0.00124	0.00068	0.01183	0.00158	0.01146	0.00853	0.00666	0.00872	0.00906	
2. Ferrous metals	0.03904	0.17614	0.63834	0.19490	0.01817	0.15350	0.01834	0.0104	0.00726	0.00837	0.0120	0.00803	0.06335	0.01705	0.15601	0.10778	0.10939	0.12457	
3. Nonferrous ores	0.0233	0.02671	0.00306	0.00307	0.00151	0.00153	0.00154	0.00056	0.00056	0.00056	0.00056	0.00056	0.0261	0.01648	0.01374	0.01691	0.01691	0.01691	
4. Nonferrous metals	0.01065	0.12270	0.00561	0.17422	0.00694	0.0635	0.00719	0.00436	0.00261	0.00913	0.00485	0.00261	0.12694	0.15421	0.07854	0.06505	0.08071	0.04166	
5. Coke	0.1820	15078	0.00651	0.00645	0.00546	0.00440	0.00530	0.00247	0.00141	0.00151	0.00226	0.00226	0.03450	0.01576	0.03736	0.02468	0.02149	0.02844	
6. Metal products	0.01047	0.22994	0.00673	0.01044	0.00546	0.00440	0.00530	0.00247	0.00141	0.00151	0.00226	0.00226	0.01524	0.01371	0.02151	0.01375	0.01823	0.01823	
7. Coal	0.01101	26714	0.00377	0.00348	0.00298	0.00275	0.00275	0.00557	0.00526	0.00526	0.00526	0.00526	0.06345	0.06345	0.05321	0.06491	0.01886	0.08549	
8. Oil	0.0517	0.05820	0.00119	0.00227	0.00197	0.00197	0.00197	0.00080	0.00076	0.00076	0.00076	0.00076	0.04059	0.04059	0.03148	0.03148	0.01178	0.03151	
9. Gas	0.00143	0.00159	0.00119	0.00227	0.00197	0.00197	0.00197	0.00080	0.00076	0.00076	0.00076	0.00076	0.00145	0.00145	0.00116	0.00116	0.00050	0.00050	
10. Other fuels	0.00450	0.00550	0.00211	0.00217	0.001949	0.001949	0.001949	0.00050	0.00050	0.00050	0.00050	0.00050	0.00129	0.00129	0.00129	0.00129	0.00164	0.00370	
11. Electrical power	0.06541	0.4898	0.02336	0.07597	0.05823	0.0629	0.03519	0.03519	0.03868	0.03131	0.03097	0.01640	0.04234	0.02369	0.03821	0.02807	0.02458	0.02839	
12. Electrical and power machinery and equipment	0.00630	0.0469	0.00550	0.00373	0.00451	0.00444	0.00444	0.00228	0.00214	0.00092	0.00501	0.00609	0.00947	0.05907	0.13276	0.08859	0.01181	0.06220	
13. Tools and instruments	0.01032	0.0765	0.00892	0.00573	0.00767	0.01362	0.00844	0.00283	0.01351	0.00492	0.0071	0.00821	0.02882	0.02882	0.01709	0.02653	0.04577	0.00779	
14. Machinery and equipment	0.01940	0.0105	0.01867	0.01118	0.01061	0.01292	0.01241	0.00571	0.00571	0.00571	0.00571	0.00571	0.00565	0.00565	0.00319	0.01001	0.00359	0.00494	
15. Transportation machinery and equipment	0.00423	0.00553	0.00294	0.00736	0.00558	0.00823	0.00804	0.00875	0.00875	0.00875	0.00875	0.00875	0.00179	0.00100	0.04533	0.0162	0.01836	0.00197	
16. Autos	0.01018	0.00781	0.00736	0.00558	0.00823	0.00823	0.00823	0.00834	0.00834	0.00834	0.00834	0.00834	0.00445	0.00445	0.03859	0.00918	0.011739	0.00633	
17. Tractors and agricultural machinery and equipment	0.00442	0.00281	0.00382	0.00228	0.01192	0.0246	0.01184	0.01136	0.01135	0.00246	0.01042	0.00094	0.02532	0.00496	0.00126	0.01094	0.01430	0.00198	
18. Machinery not elsewhere classified	0.00532	0.0776	0.00957	0.00495	0.01777	0.00959	0.00978	0.00775	0.00775	0.00775	0.01430	0.01337	0.00388	0.02745	0.03017	0.00720	0.01010	0.02963	0.00402
19. Metallurgy	0.00420	0.00307	0.00375	0.00233	0.00314	0.00314	0.00314	0.00633	0.00633	0.00633	0.00633	0.00633	0.00168	0.00168	0.00168	0.00205	0.00722	0.00319	
20. Repair of all machinery and equipment	0.04372	0.02655	0.04035	0.02367	0.00801	0.02656	0.00524	0.00914	0.00863	0.00863	0.00863	0.00863	0.00627	0.01937	0.01267	0.00746	0.01169	0.01031	
21. Abrasives and graphite products	0.00264	0.00111	0.00251	0.00115	0.00029	0.00219	0.00032	0.00016	0.00011	0.00025	0.0025	0.0025	0.02257	0.00274	0.00305	0.00524	0.00172	0.00220	
22. Mineral and basic chemistry	0.1567	0.1364	0.1467	0.01028	0.01675	0.01290	0.00310	0.00911	0.00292	0.00703	0.00343	0.00612	0.00917	0.00663	0.00459	0.00755	0.00447	0.00633	0.00375
23. Other chemicals	0.1759	0.1450	0.1581	0.01049	0.01370	0.01529	0.01387	0.01122	0.00843	0.00704	0.00670	0.00594	0.00321	0.00670	0.00670	0.00355	0.00447	0.00633	0.00375
24. Rubber products	0.01583	0.01440	0.01071	0.00943	0.01853	0.01409	0.01409	0.01111	0.00632	0.00736	0.01110	0.00632	0.00736	0.01756	0.01756	0.00427	0.01480	0.01642	0.00132

25. Lumber and woodworking.....	.045361	.043356	.026721	.083981	.077221	.109611	.016511	.012871	.045891	.031501	.037588	.022559	.039441	.056351	.030431	.036291	.017579	.03610
26. Paper.....	.004621	.005281	.004357	.005018	.002781	.01634	.003031	.003261	.001821	.001761	.009711	.005533	.004681	.00573	.004631	.003451	.00510	.00510
27. Construction materials.....	.007361	.006291	.003551	.004591	.005351	.005281	.002931	.001531	.003501	.002501	.005031	.001851	.003515	.001115	.002801	.002751	.000751	.00415
28. Glass.....	.001571	.004271	.006291	.003551	.004591	.005351	.005281	.002931	.000411	.000191	.000721	.000481	.003771	.001641	.003321	.005981	.001041	.00219
29. Textiles.....	.021171	.028611	.022381	.022381	.022381	.022381	.032261	.032261	.01604	.009321	.030561	.01369	.040961	.024001	.031841	.032621	.067791	.037381
30. Apparel and footwear.....	.023431	.023111	.023111	.023111	.023111	.023111	.016021	.031361	.004501	.034051	.034051	.013261	.016221	.010611	.023051	.017571	.021461	.016151
31. Food.....	.006881	.005381	.005381	.005381	.005381	.005381	.005381	.005381	.004851	.002901	.002261	.005091	.002741	.014021	.007831	.010111	.010041	.005631
32. Industrial products not elsewhere classified.....	.000791	.000633	.000633	.000633	.000633	.000633	.000633	.000633	.000401	.000221	.000911	.000371	.010891	.005711	.010941	.008871	.010471	.000501
33. Construction.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34. Agriculture.....	.009691	.009441	.007891	.00681	.010741	.017781	.01141	.005371	.003211	.010611	.004581	.015371	.008861	.012201	.012591	.021150	.006231	.007711
35. Forestry.....	.000691	.006651	.000581	.000461	.000581	.00118	.00075	.00145	.000221	.000171	.000611	.000311	.000521	.000421	.000271	.000421	.000511	.000241
36. Transportation and communications.....	.194501	.184481	.052611	.105621	.296121	.180831	.320021	.23681	.028961	.164621	.103621	.085701	.045791	.116161	.071141	.082401	.110991	.025581
37. Trade and distribution.....	.048771	.065501	.046731	.06183	.035401	.074461	.042071	.042071	.0128761	.060731	.018001	.024281	.045981	.063191	.045051	.045351	.025561	.038241
38. Other sectors not elsewhere classified.....	.001871	.019851	.00170	.02823	.001271	.010281	.00133	.00109	.000631	.001441	.000751	.010291	.008761	.011091	.010231	.007491	.012381	.003941
39. Labor input coefficients.....	.465491	.39139	.32840	.30843	.44725	.41159	.47577	.23987	.14379	.62233	.29575	.406681	.257961	.414991	.36739	.29292	.359641	.380351

Part III. Table of full input coefficients—Inverse of the technology matrix $(I-A)^{-1}$ —Continued

Producing sectors		Consuming sectors—Continued																		
		Food	Construction	Agriculture	Forestry	Transportation and communications	Trade and distribution	Other sectors not elsewhere classified	Classified here											
(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)		
1. Ferrous ores.....	0.00808	0.01937	0.00305	0.00143	0.00110	0.00123	0.00090	0.00028	0.00034	0.00048	0.00068	0.00035	0.00110	0.00063	0.00009	0.01059	0.01733	0.00129		
2. Ferrous metals.....	146.11	0.3127	0.2468	0.1445	0.1335	0.1306	0.1794	0.0565	0.0730	0.0445	0.0532	0.0652	0.0270	0.0746	0.0823	0.06591	0.0191	0.00911		
3. Nonferrous ores.....	0.1406	0.2962	0.0662	0.0355	0.0342	0.0355	0.0317	0.0253	0.0254	0.0255	0.0254	0.0255	0.0674	0.06568	0.0452	0.00440	0.00680	0.00943		
4. Nonferrous metals.....	0.0899	0.1521	0.1446	0.0377	0.0202	0.0070	0.0730	0.0210	0.01338	0.02299	0.0347	0.01338	0.01732	0.01956	0.0367	0.0173	0.00837	0.0439	0.00553	
5. Coke.....	0.0385	0.0259	0.00401	0.00941	0.00557	0.001138	0.00667	0.00148	0.00126	0.00148	0.00170	0.00167	0.0170	0.00657	0.0147	0.00338	0.0200	0.0032		
6. Metal products.....	0.02034	0.0738	0.0882	0.03221	0.06356	0.00339	0.00537	0.01144	0.01827	0.00126	0.00138	0.0163	0.0281	0.01425	0.0161	0.00141	0.00555	0.02592	0.00933	
7. Coal.....	0.07039	0.07015	0.05452	0.05452	0.05336	0.03261	0.08232	0.08232	0.08232	0.06044	0.06051	0.01171	0.1539	0.02543	0.05020	0.00971	0.01550	0.01021	0.01766	0.00116
8. Oil.....	0.04948	0.07074	0.07559	0.08270	0.04027	0.06961	0.04921	0.05793	0.05995	0.03345	0.03290	0.0290	0.0290	0.0290	0.0277	0.04496	0.07770	0.01094	0.00354	
9. Gas.....	0.00125	0.0281	0.02225	0.00546	0.00245	0.00152	0.01116	0.00350	0.0177	0.00385	0.00357	0.00229	0.0019	0.0019	0.00122	0.00019	0.00063	0.00022	0.00006	
10. Other fuels.....	0.00349	0.0690	0.06548	0.06450	0.06329	0.06197	0.01320	0.00912	0.01915	0.00189	0.00191	0.00179	0.0019	0.0019	0.00129	0.00191	0.00127	0.00139	0.00139	
11. Electrical power.....	0.6282	0.0127	0.07250	0.09008	0.06364	0.01391	0.04800	0.02530	0.02722	0.00913	0.00964	0.00745	0.02162	0.02436	0.00664	0.02277	0.02357	0.00860	0.00205	
12. Electrical and power machinery and equipment.....	0.02287	0.0416	0.00531	0.00293	0.00228	0.00274	0.00319	0.00487	0.00345	0.00124	0.00190	0.00885	0.00772	0.00282	0.00445	0.00383	0.00284	0.00382	0.00321	
13. Tools and instruments.....	0.03099	0.0846	0.00763	0.00908	0.00442	0.00355	0.00329	0.00382	0.00512	0.00528	0.00688	0.00124	0.00131	0.01185	0.01175	0.02389	0.00228	0.00639	0.00525	
14. Machinery and equipment.....	0.00934	0.0430	0.00908	0.00908	0.00442	0.00336	0.00336	0.00863	0.00863	0.00408	0.00408	0.00124	0.00131	0.00131	0.00111	0.00491	0.00243	0.00231	0.00226	
15. Transportation machinery and equipment.....	0.01950	0.00220	0.00754	0.00149	0.00137	0.00386	0.00299	0.00555	0.00288	0.00059	0.00059	0.00111	0.00111	0.00111	0.00111	0.00498	0.00532	0.00532	0.00232	
16. Autos.....	0.07868	0.00626	0.01440	0.00581	0.00414	0.01610	0.00770	0.01412	0.00704	0.00662	0.00662	0.00162	0.00809	0.01313	0.00840	0.00381	0.00097	0.00159	0.00061	
17. Tractors and agricultural machinery and equipment.....	0.06141	0.00254	0.00235	0.00176	0.00140	0.00885	0.00387	0.00380	0.00298	0.00155	0.00122	0.02290	0.00779	0.00403	0.00624	0.01298	0.00136	0.00077	0.00115	
18. Machinery not elsewhere classified.....	0.1834	0.00491	0.01706	0.00719	0.00723	0.01428	0.00543	0.02775	0.00556	0.00374	0.00350	0.00847	0.01589	0.01320	0.02286	0.00993	0.01619	0.01348	0.00333	
19. Metallurgy.....	0.1435	0.00512	0.00442	0.00486	0.00450	0.01243	0.00669	0.00442	0.01485	0.00231	0.00348	0.00345	0.01358	0.04586	0.00467	0.01071	0.01144	0.00119	0.00224	
20. Repair of all machinery and equipment.....	0.00686	0.03142	0.01700	0.01471	0.00971	0.00675	0.00628	0.01457	0.03252	0.00696	0.00564	0.1588	0.01799	0.00814	0.02688	0.00119	0.01060	0.00153	0.00442	
21. Abrasives and graphite products.....	0.00191	1.07448	.000440	0.00053	0.00034	0.00086	0.00047	0.00050	0.00215	0.00111	0.00021	0.00117	0.00042	0.00445	0.00545	0.00809	0.00028	0.0006	0.00023	
22. Mineral and basic chemistry products.....	0.08949	0.03933	0.13154	0.05614	0.05276	0.05156	0.02389	0.0458	0.00602	0.00873	0.00873	0.02497	0.02477	0.02744	0.0458	0.0101	0.01075	0.0101	0.00259	
23. Other chemistry and basic chemistry products.....	0.03938	0.01400	0.05811	0.27029	0.44709	0.2476	0.01619	0.0735	0.02497	0.02497	0.02497	0.02497	0.02497	0.02497	0.02497	0.02497	0.02497	0.02497	0.00256	
24. Rubber products.....	0.02571	0.00875	0.02246	0.08871	1.12360	0.29329	0.1249	0.02139	0.01012	0.00385	0.00533	0.03997	0.03077	0.0162	0.00366	0.00207	0.0162	0.00366	0.00255	
25. Lumber and woodworking.....	0.05612	0.02396	0.04675	0.04658	1.34650	0.34580	0.38123	0.03204	0.03204	0.03204	0.03204	0.03204	0.03204	0.03204	0.03204	0.03204	0.03204	0.03204	0.01329	
26. Paper.....	0.0408	0.06935	0.1058	0.06892	0.06043	1.07638	0.02929	0.1304	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	
27. Construction materials.....	0.0149	0.00724	0.00784	0.00277	0.00227	0.00384	0.00919	1.21449	0.01184	0.00695	0.00107	0.00162	0.00141	0.022797	0.00124	0.00389	0.000775	0.00083	0.00036	
28. Glass.....	0.00256	0.00140	0.00203	0.00312	0.00334	0.00505	0.00208	0.00588	1.01573	0.00322	0.00416	0.00141	0.01238	0.00038	0.00011	0.00108	0.00018	0.00018	0.00036	

29. Textiles.....	.03216	.15059	.04921	.03250	.21038	.05938	.03922	.03925	.03925	.03925	.03925	.03925	.03925	.03925	.03925	.03925	.03925	.03925	.03925
30. Apparel and foot wear.....	.01736	.01802	.02951	.01397	.01397	.01397	.01397	.01397	.01397	.01397	.01397	.01397	.01397	.01397	.01397	.01397	.01397	.01397	.01397
31. Food.....	.00844	.03000	.03199	.14800	.06188	.00139	.00696	.00879	.00683	.01646	.06317	.20761	.01016	.03278	.00148	.00473	.00364	.00060	.00060
32. Industrial products, not elsewhere classified.....	.00223	.00082	.00082	.00332	.00431	.00629	.00069	.00065	.01609	.00058	.00214	.00289	.00140	.00122	.00353	.00345	.00028	.00036	.00033
33. Construction.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34. Agriculture.....	.01124	.04486	.02318	.08721	.08772	.02274	.01444	.01444	.01136	.01088	.27334	.18823	.49345	.13201	.010000	.01294	.02071	.01099	.01368
35. Forestry.....	.00076	.00032	.00032	.00062	.00062	.00065	.00049	.01171	.00171	.00073	.00094	.00013	.00023	.00027	.00047	.00015	.1.02665	.00046	.00062
36. Transportation and communications.....	.07074	.10743	.49550	.07826	.07754	.28274	.16611	.33022	.15290	.02653	.03937	.11510	.08890	.03167	.06382	.08121	.01747	.01747	.01747
37. Trade and distribution.....	.02567	.02643	.04239	.04382	.04252	.06371	.10334	.07923	.11992	.05333	.08087	.11685	.16367	.03500	.08109	.00353	.1.02690	.01149	.00496
38. Other sectors not elsewhere classified.....	.00753	.00222	.00222	.00289	.01796	.01308	.01613	.06738	.01197	.01469	.00093	.00767	.00295	.05719	.01458	.00120	.00050	.00147	.00397
39. Labor input coefficients.....	.50509	.42559	.47076	.29098	.27737	.56569	.43260	.57091	.46885	.31972	.24987	.46752	.37523	.46153	.90340	.1.21121	.53091	.53350	.27557

APPENDIX 2

OFFICIAL SOVIET ECONOMIC DATA FOR 1963

Excerpted from the Annual
"Commuque of the Central Statistical Administration
of the Council of Ministers of the U.S.S.R."

[*Pravda*, January 24, 1964]

TABLE 1.—*Industry—Production of principal commodities*

Commodity	Unit	Produced in 1963	Percent of 1962
Electric power.....	Billion kilowatt-hours.....	412.0	112
Steel.....	Million metric tons.....	80.2	105
Iron ore.....	do.....	187.0	107
Petroleum, crude.....	do.....	206.0	111
Coal.....	do.....	532.0	103
Cement.....	do.....	61.0	106
Timber, hauled.....	Million cubic meters.....	253.0	104
Paper.....	Million metric tons.....	2.9	104
Turbines.....	Million kilowatts.....	11.9	100
Machine tools, metal-cutting.....	Thousands units.....	183.0	103
Machine tools, metal-forming.....	do.....	33.8	101
Metalurgical equipment.....	Thousands metric tons.....	236.0	98
Petroleum equipment.....	do.....	115.0	95
Chemical equipment.....	Million rubles.....	287.0	109
Weaving looms.....	Thousands units.....	24.1	105
Autos and trucks.....	do.....	887.0	102
Tractors.....	do.....	325.0	113
Farm machinery.....	Million rubles.....	1,371.0	117
Excavators.....	Thousands units.....	17.9	104
Fertilizers, mineral.....	Million metric tons.....	19.9	115
Manmade fibers.....	Thousands metric tons.....	308.0	111
Soda, caustic.....	do.....	1,049.0	109
Soda ash.....	do.....	2,500.0	109
Sulfuric acid.....	do.....	6,887.0	112
Automobile tires.....	Million units.....	22.6	108
Fabrics:			
Cotton.....	Million square meters.....	5,069.0	103
Wool.....	do.....	471.0	100
Linen.....	do.....	509.0	105
Silk.....	do.....	801.0	102
Shoes, leather.....	Million pairs.....	463.0	101
Watches and clocks.....	Million units.....	27.1	104
Radio sets.....	do.....	4.8	113
Television sets.....	do.....	2.5	114
Refrigerators.....	Thousands units.....	911.0	109
Washing machines.....	do.....	2,300.0	127
Meat:			
Slaughtered* weight.....	Million metric tons.....	10.2	107
Factory-produced only.....	do.....	5.4	113
Fish catch.....	do.....	4.7	112
Butter.....	Thousands metric tons.....	874.0	93
Cheese.....	do.....	222.0	107
Whole milk products.....	Million metric tons.....	9.5	102
Granulated sugar, beet.....	do.....	5.5	93
Vegetable oils.....	do.....	2.1	105
Soap.....	do.....	1.8	108
Canned goods.....	[Billion] standard cans.....	6.4	108

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 218 ANNUAL ECONOMIC INDICATORS FOR THE U.S.S.R.

TABLE 2.—*Agriculture*

Indicator	Unit	1962	1963
PRODUCTION			
Meat, slaughtered weight.....	Million metric tons.....	9.5	10.2
Milk.....	do.....	63.9	61.2
Eggs.....	Billions.....	30.1	28.8
PROCUREMENT			
Government procurement:	Million metric tons.....	56.6	44.8
Grain.....	do.....	4.3	5.2
Cotton, raw.....	do.....	3.9	41.4
Sugar, beet.....	do.....	5.7	8.0
Potatoes.....	do.....	5.3	5.6
Livestock, slaughtered weight.....	do.....	29.2	28.5
Milk.....	do.....	8.5	8.7
Eggs.....	Billions.....	374	379
Wool.....	Thousand metric tons.....		
LIVESTOCK			
Livestock numbers (end of year):	Million heads.....	87.0	85.3
Large horned cattle.....	do.....	38.0	38.2
Cows.....	do.....	70.0	40.7
Hogs.....	do.....	146.4	139.2
Sheep and goats.....	do.....	139.7	133.6

TABLE 3.—*Transport*

Indicator	Unit	1963	Percent of 1962
Freight carried:			
Railroad.....	Billion ton-kilometers.....	1,745	106
River.....	do.....	114	104
Sea.....	do.....	130	
Truck.....	do.....	34	108
Oil pipeline.....	do.....	91	122
Freight originated:			
Railroad.....	Million metric tons.....	2,144	104
River.....	do.....	239	104
Sea.....	do.....		112
Truck.....	do.....	2,012	104
Oil pipelines.....	do.....	185	112

TABLE 4.—*Other economic indicators for 1963*

Population, as of Jan. 1, 1964.....	226,000,000 (223,100,000 Jan. 1, 1963).
Number of workers and employees, yearly average.....	70,500,000 (68,300,000 in 1962).
Gross social product ¹	Increased by 5 percent over 1962 (by 39 percent over 1958).
Retail trade sales.....	91,600,000,000 rubles (5 percent over 1962).
Foreign trade turnover (exports plus imports).....	12,700,000,000 rubles (5 percent over 1962).
New housing (total space).....	77,000,000 square meters (80,500,000 in 1962) or about 2,000,000 apartments.
Number of school graduates:	
Elementary (8 years).....	3,000,000.
Secondary, general (11 years).....	900,000.
Secondary, specialized.....	510,000.
Higher education.....	330,000.
Engineers.....	125,000.

¹ For 1962 and preceding years, the annual communiqué used the indicator "National income" rather than "Gross social product" as a measure of the total national product. It also provided an absolute figure for "National income," namely 161,500,000,000 rubles (later revised to 165,100,000,000 rubles in *Nar. Khoz.*, 1963 (p. 482)).